



POWDER COATING EQUIPMENT USER'S MANUAL

E-COAT+3 MASTER P3

SERIES



+3



Check our
product
online

electron.com.tr + info@electron.com.tr

 **Electron**

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1. Safety Regulations

This section sets out the fundamental safety regulations that must be followed by the user and third parties using the E-COAT+3 Master P3. These safety regulations must be read and understood before the E-COAT+3 Master P3 is used.

1.1. Safety Symbols

The following warnings with their meanings can be found in the Sistem Teknik Makina operating instructions. The general safety precautions must also be followed as well as the regulations in the operating instructions.



DANGER!
Electrical and moving parts pose a hazard.
Possible Consequences: Death or serious injury.



WARNING!
Improper use will damage the device or cause malfunction.
Possible consequences: Minor injuries or damage to equipment.

1.2. Conformity Of Use

1. E-COAT+3 Master P3 Manual Coating Equipment is built to the latest specification and conforms to the recognized technical safety regulations. It is designed for the normal application of powder coating.
2. Any other use is considered as non-conform. The manufacturer is not responsible for damage resulting from improper use of this equipment; the end-user alone is responsible. If the E-COAT+3 Master P3 is to be used for other purposes or other substances outside of our guidelines then Sistem Teknik Makina A.Ş. should be consulted.
3. Observance of the operating, service and maintenance instructions by the manufacturer is also part of conformity of use. The E-COAT+3 Master P3 should only be used, maintained and started up by trained personnel, who are informed about and are familiar with the possible hazards involved.
4. Start-up is forbidden until it has been established that the E-COAT+3 Master P3 has been set up and wired according to the guidelines for machinery EN ISO 12100 (machine safety) must also be observed.
5. Unauthorized modifications to E-COAT+3 Master P3 exempt the manufacturer from any liability from resulting damage.
6. Relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.
7. In addition to above, country-specific safety regulations must be observed.

Explosion Protection Class of E-COAT+3 Master P3 Controller Unit

Explosion Protection	Protection Type	Temp Class
  II 3(2)D	IP54	T6 (85°C)

Explosion Protection Class of E-GUN+3 C1 Powder Paint Gun

Explosion Protection	Protection Type	Temp Class
  II 2 D	IP64	T6 (85°C)

Explosion Protection Class of E-GUN+3 C3 Powder Paint Gun

Explosion Protection	Protection Type	Temp Class
  II 2 D	IP64	T6 (85°C)

Note: EN 60204-1 this standard includes the non-mobile machines electronic machines and programmable electronic hardware and systems.

1.3. Technical Safety Regulations for Stationary Electrostatic Powder Spraying Equipment

1.3.1. General Information

The powder spraying equipment of Sistem Teknik Makina (Electron) is designed for safe use and to the latest technological specs. Electrostatic powder equipment could create dangerous situations unless it's used properly. In addition to that, there might be a danger to life and limb of the user or third party, a danger of damage to the equipment and other machinery that belongs to the user and hazards to the proper operation of equipment.

1. The powder spraying equipment should only be started up and used once the operating instructions have been carefully read. Apart from any usage from the user manual, there lies a danger of damaging the equipment and loss of control of the equipment.
2. Operational safety has to be observed before every start-up. Regular Servicing is the essence of working safely.
3. Local legislation should be considered for the safety.
4. The plug has to be disconnected before the machine is opened for repair.
5. The plug and socket connections between spraying equipment should only be taken out when the power is off.
6. The connection cables have to be installed in a manner that they wouldn't interfere or damage the normal machine operation. Also the local legislation should be observed for the installation.
7. Only original Electron spare parts should be used, because only the original products will guarantee the equipment's explosion protection. Any damage caused by other used parts is not covered by the guarantee.
8. If Electron powder spraying equipment is going to be used with other devices/machinery from other manufacturers, their safety regulations should be also considered.
9. Be cautious while working in a powder/air mixture area. In the right concentration the mixture would be flammable, thus smoking is forbidden in the entire plant area.
10. Rule of thumb says that any person who uses a pacemaker should NEVER enter a high voltage area or places with electromagnetic fields. Note that people with pacemakers ALSO SHOULDN'T work in powder spraying installations.



WARNING!

Only the customer itself is responsible for the safe usage of the equipment.
Sistem Teknik is not responsible for any damage resulted from the usage.

1.3.2. Consciously Working Safe

Every other individual who will be working for the assembly, start-up, operation, service and repair of powder spraying equipment must have read and understood the operating instructions and the "Safety Regulations". Operators have to be appropriately trained via Sistem Teknik assembly personnel and made aware of the possible danger of powder spraying equipment and the environment.

The control units for guns must only be set up and used in zone 22. The spray guns are permitted in the zone 21 which is created by them but only them.

Powder spraying equipment must only be used by trained and authorized personnel. This also applies for any kind of modification to the electrical equipment, which only should be carried out by a specialist.

It is essential that the operating instructions are understood before any kind of work is done with the equipment. All the procedures have to be done according to the instructions. Powder spraying equipment can be turned off via the main power switch or the emergency shut down procedure.

1.3.3. Safety Regulations for the Operating Firm and/or Personnel

1. First of all, anything which would influence the equipment negatively should be avoided for the technical safety.
2. The machine user should be well informed about no other people than trained personnel would use the machine.
3. The employer has to provide an operating instruction manual for specifying the dangers for humans and the environment by handling dangerous materials, as well as all preventive measures and workplace behaviors. This "document" must be well written in an understandable form in the language that the person employed for the equipment.
4. The operator is obliged to check the equipment for external damage once every shift changed at the very least. The operation characteristic changes should also be reported.
5. Users should conform the satisfactory working conditions else the equipment should not be used.
6. The operating firm must ensure that the users wear protective clothing like facemasks and working suits.
7. The firm also guarantees the cleanliness of the workplace and proper checks for the powder spraying equipment.
8. Safety devices should be always on the equipment at all costs unless the equipment is going to be maintained or cleaned. After the maintenance all the devices should be put on the equipment. The users must be trained well for this purpose.
9. Powder fluidization or high voltage spray gun checks have to be done when the equipment is switched off.

1.3.4. Special Types of Hazard

1. **Power:** All the high voltage equipment should be unplugged before opened. This is a huge life risk thus it has to be taken under great care.
2. **Powder:** Powder/air mixtures could be ignited by sparks. Sufficient ventilation is a must while using powder spraying equipment. Powder, which is not swept from the floor creates risky environment.
3. **Static Charges:** These could result in the following: Charges to people, electric shocks, sparks. Charging of objects has to be avoided.
4. **Grounding:** All electricity conducting parts and machinery in the workplace must be earthed. Please connect a ground wire 1.5 meters before the entrance of the cabinet, in the middle of the cabinet and 1.5 meters after the exit of the cabinet. The grounding resistance must amount to a maximum of 1 MOhm resistance has to be tested regularly. The appropriate devices must be kept in the workplace for regular grounding checks.
5. **Compressed Air:** Compressed air could be created after long pauses of the equipment and this creates risk of pneumatic hose damage or uncontrolled release and improper use of compressed air. Compressed air should be drained properly.
6. **Crushing and Cutting:** There might be moving parts while operation (e.g. Conveyor Belt, Reciprocator). The operator must be trained to maintain the area safety and local security regulations.
7. **Exceptional Circumstances:** Local conditions must be met at all costs. Additional measures such as barriers can be used to prevent unauthorized access.
8. **Conversions and Modifications to the Equipment:** All conversions and must be asked to Sistem Teknik prior to the process and no process should be done without Sistem Teknik's permission. This is essential for the equipment safety and conformity. Powder coating equipment should never be used if damaged; these parts should be changed immediately with the original Sistem Teknik replacement. Other replacements then Sistem Teknik original equipment does not conform the guarantee, thus the guarantee will no longer be valid. Equipment repairs must be done only by specialist or at Sistem Teknik verified shops.

1.3.5. Safety Requirements for Electrostatic Powder Coating

1. All the equipment used for powder coating is dangerous unless the instructions are not conformed.
2. Every electrostatic conductive part must be earthed within the 5 meter radius from the equipment.
3. The floor of the coating area should conduct electricity (Concrete is generally a conductive surface, check with your building project for more info)
4. The users should wear electricity conducting footwear.
5. The guns are earthed thus you must use them with your bare hands. If gloves are going to be used, make sure that they conduct electricity.
6. Grounding cable must be connected to the grounding screw of the electrostatic powder spraying hand appliance. It should have a good connection with the booth, hopper and conveyor chain (if used).
7. E-COAT+3 Master P3 Device must be switched off while the hand gun is being cleaned.
8. The grounding must be checked every week. Remember that the grounding resistance must be 1 MOhm at a maximum.
9. The E-COAT+3 Master P3 equipment should only be switched once the booth is working in proper conditions. If the booth malfunctions, E-COAT+3 Master P3 should be turned off.
10. At nozzle changes, the E-COAT+3 Master P3 device should be shut down.
11. Only use spare parts / attachments and accessories from Sistem Teknik's original parts page. This ensures the safety of the equipment and conformity of use.
12. Cleaning agents creates the risk of hazardous fumes. Please check the manufacturer's manual about more information about the cleaning agents if they are used in the site.
13. If there is any damage on the powder coating equipment or the spray gun, operators should stop using it.
14. Especially make sure that the environmental regulations and the manufacturer's instructions are being conformed while disposing the powder lacquer and cleaning agents.
15. Repairs have to be carried out via specialists of Sistem Teknik trained personnel and never to be done in the operating area under any circumstance.
16. Dangerous dust concentration levels should be avoided in powder spraying areas. There must be sufficient technical ventilation available (e.g. booth ventilation) to prevent a dust concentration of more than 50% of the lower explosion limit (UEG = max. permissible powder/air concentration). If the UEG is not known then a value of 10g/m³ should be used.

EN European Standards

2014/34/EU	The approximation of the laws of the Member States relating to apparatus and safety systems for their intended use in potentially explosive atmospheres
TS EN ISO 12100	Machine safety
EN IEC 60079-0	Electrical equipment for locations where there is danger of explosion
EN 50050-2	Electrical apparatus for potentially explosive atmospheres electrostatic hand-held spraying equipment
EN 50177/A1	Stationary electrostatic spraying equipment for flammable coating powder
EN 16985	Coating plants spray booths for application of organic powder coating material safety requirements
TS 3033 EN 60529	IP-Type protection: contact, foreign bodies and water protection for electrical equipment
EN 60204-1	VDE regulations for the setting up of high voltage electrical machine tools and processing machines with mains voltages up to 1000 V

1.4. Scope of Delivery

If there is an installation work that will be done by the customer, the local regulations have to be considered.

The plant must be checked for any type of foreign objects inside the booth or in ducting, input and exhaust air before start up.

All equipment must be grounded according to the local regulations before start up as well.

1.4.1. E-COAT+3 Master P3-A Automatic Bare Kit



- E-GUN+3 C3
- E-GUN +3 Automatic Gun Cable (12 m)
- E-FEED+3 AP3 (1 application pump)
- E-COAT+3 Master P3
- Regulator and Air Distribution Unit
- Hose connection accessories

1.4.2. E-COAT+3 Master P3-B Manuel Bare Kit



- E-GUN+3 C1
- E-FEED+3 AP3
- E-COAT+3 Master P3
- Regulator and Air Distribution Unit
- Hose connection accessories

1.4.3. E-COAT+3 Master P3-H and P3-H Dual



E-COAT+3 Master P3-H

- E-GUN+3 C1
- E-FEED+3 AP
- E-COAT+3 Master P3
- E-HOPP+3 50
- E-COAT+3 Mobile Trolley w/ Air Distribution Unit and Fluidization Control
- Hose connection accessories
- E-FEED+3 AP3 (1 application pump)

E-COAT+3 Master P3-H Dual

- E-GUN+3 C1(x2)
- E-FEED+3 AP 3(x2)
- E-COAT+3 Master P3 (x2)
- E-HOPP+3 50 DUAL
- E-COAT+3 Device Cart Dual Head /w Air Distribution Unit and Fluidization Control
- Hose connection accessories(x2)

1.4.4. E-COAT+3 Master P3-M and P3-M Dual



E-COAT+3 Master P3-M

- E-GUN+3 C1
- E-FEED+3 AP3
- E-COAT+3 Master P3
- E-COAT+3 Multicolor Unit w/ Vibratory Box Holder and Suction Tube
- Hose connection accessories

E-COAT+3 Master P3-M Dual

- E-GUN+3 C1 (x2)
- E-FEED+3 AP3 (x2)
- E-COAT+3 Master P3 (x2 E-COAT+3
- Multicolor Unit w/ Vibratory Box Holder and Suction Tube)
- Hose Connection Accesories (x2)

1.5.Conformity Between Products

Electron E-COAT+3 Master P3 can be used with:

- E-GUN+3 C1
- E-GUN+3 C3
- E-FEED+3 AP3

Electron E-GUN+3 C1 can be used with:

- E-COAT+3 Master P3
- E-COAT+3 Master
- E-FEED+3 AP3
- E-FEED V2 & E-FEED+3 INJ
- FastCorona™ Manual

Electron E-GUN+3 C3 can be used with:

- E-COAT+3 Master P3
- E-COAT+3 Master
- E-COAT+3 PRO
- E-FEED+3 AP 3
- E-FEED V2 & E-FEED+3 INJ
- FastCorona™ Auto

2. Technical Data

2.1. Electrical Data

E-COAT+3 Master P3 Control Unit	
Nominal Input Voltage	100-240 VAC
Operating Frequency	50-60 Hz
Input Power	150 VA
Gun Nominal Output Voltage	Max. 20 Vp-p
Gun Nominal Output Current	Max. 1,5 A
Auxiliary Output Type	24 VDC/max. 10W, 100-240 VAC/max. 100W
Purge Output Type	24 VDC, max. 10W
Working Temperature	0 °C - +40 °C
Protection Class	IP54
Max. Operating Surface Temp	85 °C
Certification	  II 3 (2) D

2.2. Pneumatic Data

E-COAT+3 Master P3 Control Unit	
Compressed Air Connection	8 mm
Input Pressure	5,5-7,0 bar
Max. Water Vapor in Compressed Air	1,4 g/m3
Max. Oil Vapor Content in Compressed Air	0,12 mg/m3

2.3. Powder Paint Output References

E-COAT+3 Master P3 Control Unit	
Powder Paint Type	Epoxy / Polyester
Powder Transfer Hose Type	Double Carbon Discharge Connection Antistatic Hose
Powder Suction Hose Type	Polyurethane Powder Hose
Powder Hose Length	7 m-20 m
Powder Suction Hose Inner Diameter	6.0 mm
Powder Transfer Hose Inner Diameter	7.0 mm

2.4. E-COAT Master P3 with E-FEED+3 AP3 Output

E-COAT+3 Master P3 Control Unit	
Max Powder Output (gr/min)	(it depends on powder type)
% Paint	E-FEED +3 AP3
20	175
40	370
60	610
80	750
100	900

2.5. E-COAT+3 Master P3 Air Flow Rates

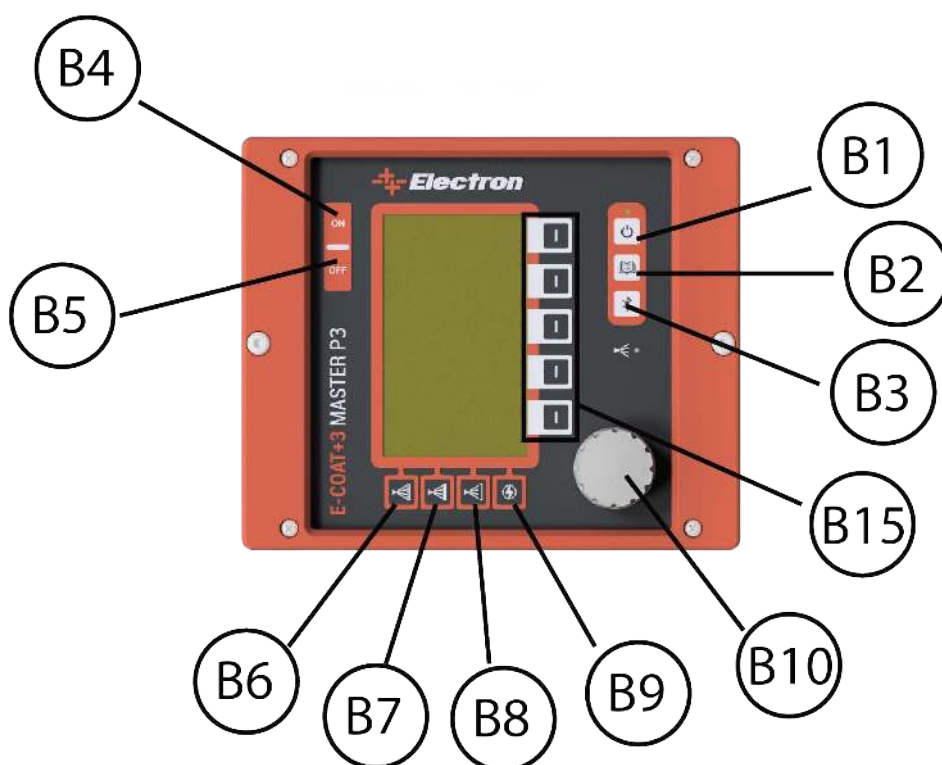
E-COAT+3 Master P3 Control Unit	
Nozzle Air	0-16 lt/min (2 lt/min Factory Set.)
Supplementary Air	10-75 lt/min
Conveying Air	10-100 lt/min
Total Air	20-175 lt/min

2.6.General View



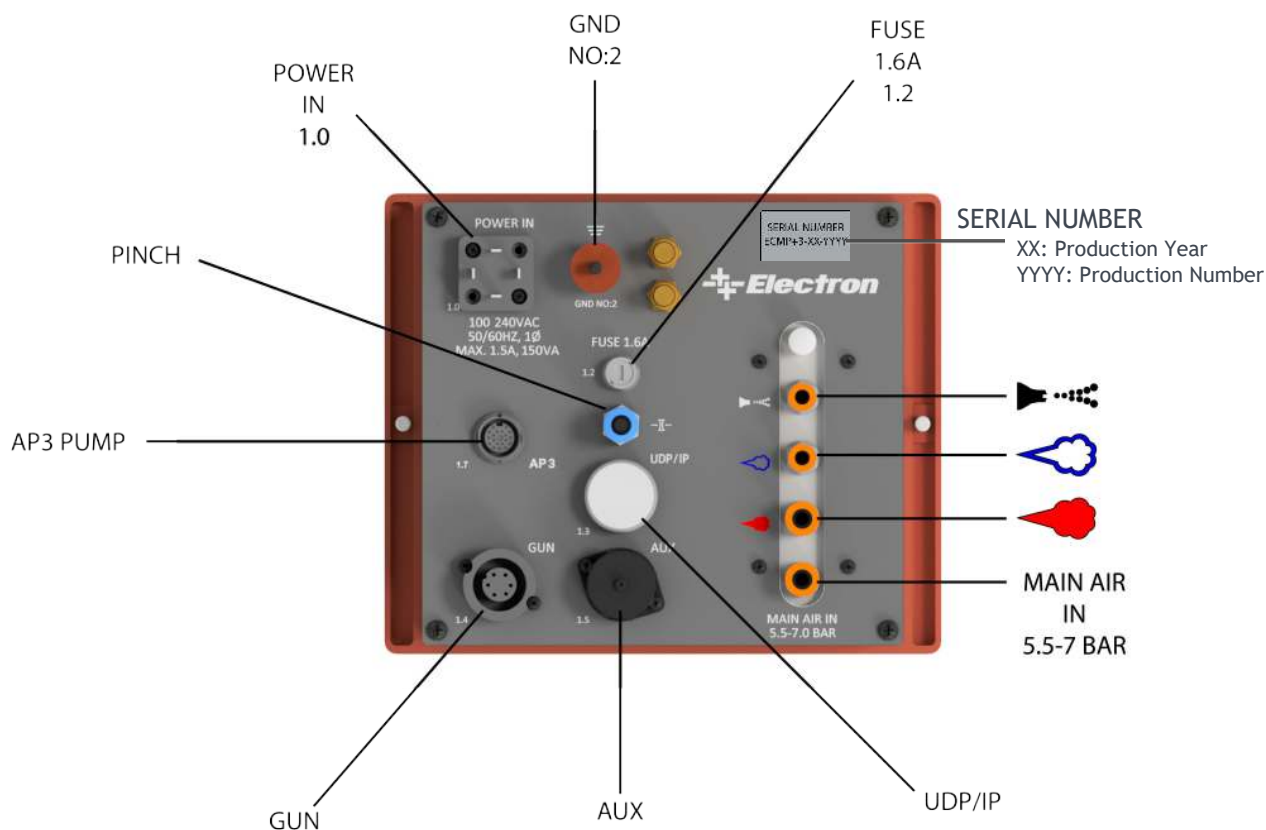
- 1)Front Panel
- 2)Display and Control Buttons
- 3)Casing
- 4)Back Panel and I/O

2.7.Front Panel and Input Buttons

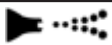


Button	Definition
B1	Fluidization and Vibration Motor(Only Multicolor) & Autostart Active/Passive Button
B2	Menu Button
B3	Bluetooth Activation Button
B4	Power On Button
B5	Power Off Button
B6	Recipe Button 1
B7	Recipe Button 2
B8	Recipe Button 3
B9	Boost Mode Button (Recipe Button 4)
B10	Rotary Adjustment Knob
B11-B15	Segment Buttons

2.8.Back Panel and Connections



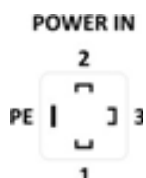
Back Panel Connections

CONNECTION	FUNCTION
1.0 POWER IN	MAIN POWER CONNECTION (100-240VAC, 50-60Hz)
1.2 Fuse 1.6A	Glass Fuse Holder 1.6A
1.3 UDP/IP (Optional)	UDP/IP automation serial connection RJ45 (Optimal for automatic device configurations)
1.4 GUN	Gun Cable Connection
1.5 AUX	Fluidization Unit/Multicolor Unit Connection
1.7 PUMPS CONNECTION	E-FEED+3 AP3 PUMP electrical connection
MAIN AIR IN 5.5-7 BAR	Main Pressured Air Connection (5,5-7,0 Bar, Ø8 Hose)
	Nozzle Air Connection (Black Ø6 Hose)
	Pinch air (Blue Ø8 Hose)
	Supplementary Air Connection (Blue Ø6 Hose)
	Transfer Air Connection (Red Ø8 Hose)
	Earth Cable Connection

Back Panel Connection Table

PIN Connection

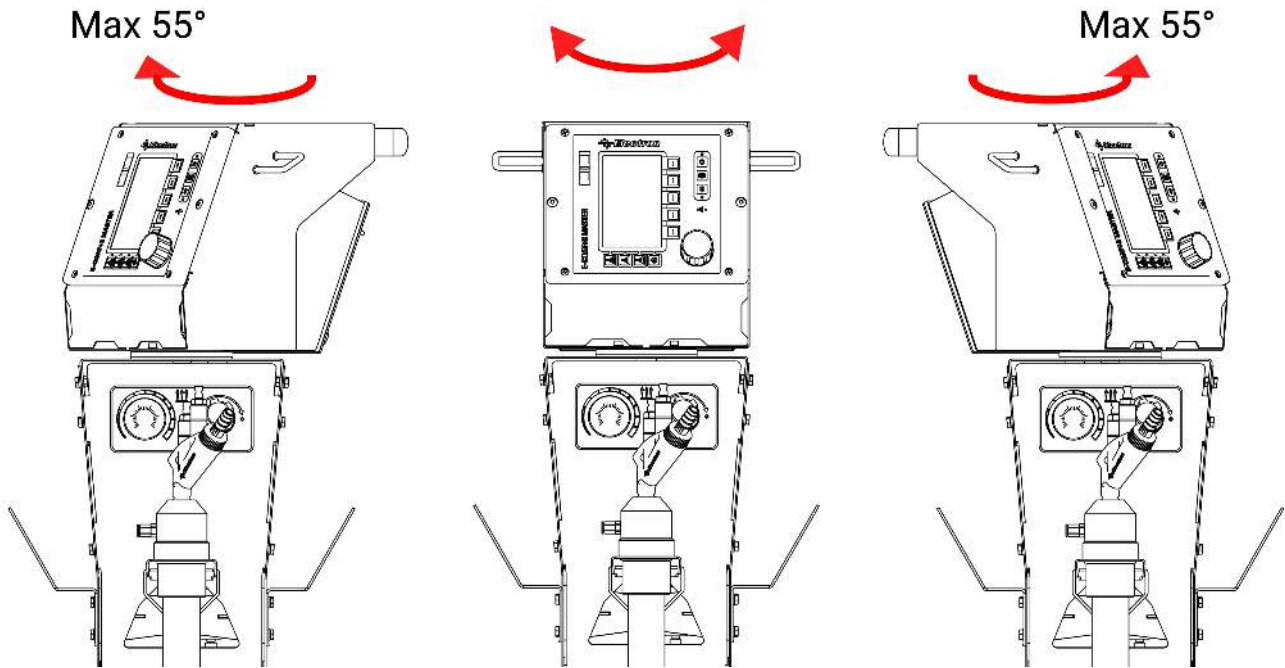
- 1) "R",Phase (100-240 VAC)
 - 2) "MP",Neutral
 - 3) "T",Trigger (Phase Applied to Trigger-Only Automatic Mode)
- PE) "GND",Grounding



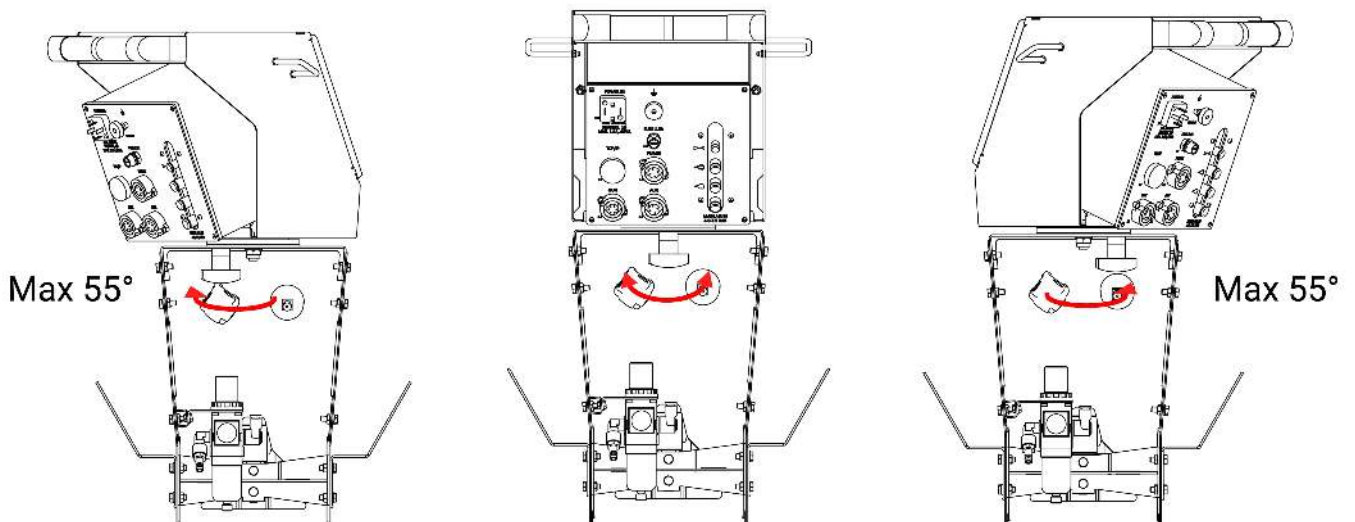
Warning: AUX input lid should be closed if there is no connection.

2.8.1 E-COAT+3 Master P3 Mobile Trolley Control Unit Rotation

The control units in the mobile trolley can rotate max. 55 degrees to the right and left to provide ergonomic and practical use.



The fixing knob at the back of the trolley is used to rotate the device heads.



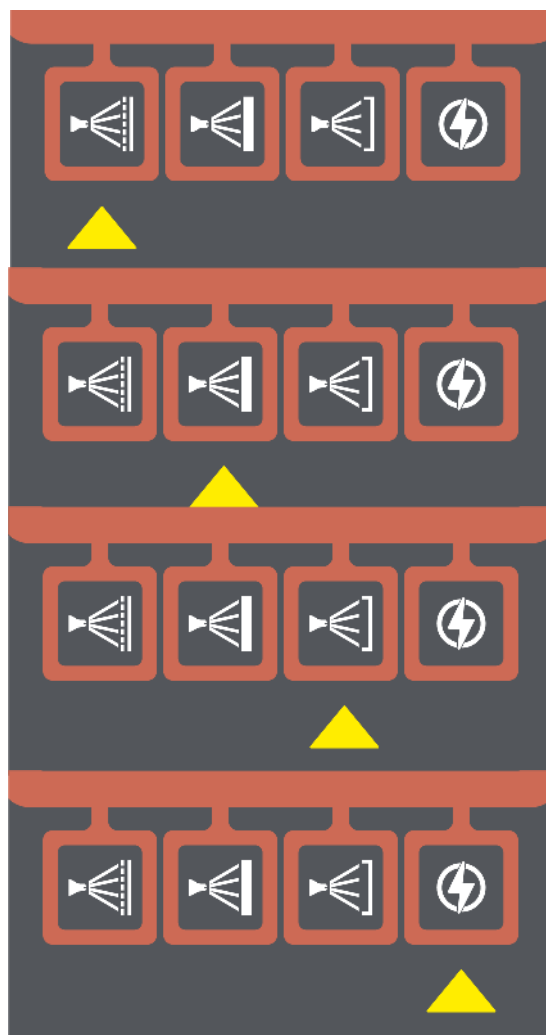
2.9.General Instructions

Usage Types

a. Automated Recipe Working Mode

This type of usage allows the customer to work with custom made recipes as well the three predefined recipes stated below:

1. Coating on Straight Faced Materials
2. Coating on Coated Materials
3. Coating on Notched Surfaces
4. Boost Mode



Predefined Recipe Buttons

Predifined Recipe Name	High Voltage (kV)	Output Current (μA)
Coating on Straight Faced Material	100	100
Coating on Coated Material	70	10
Coating on Notched Surfaces	100	20
Boost Mode	120	120

b. User Defined Recipe Working Mode

In this working principle, the user can save their own working parameters and change them. There can be 50 recipes starting from P01 to P50, four of which P01-02-03-04 are factory predefined recipes. These predefined recipes are explained in this manual. Users can manually define 50 different recipes of their choice.



Recipe Segment

c. Fast Purge Mode

Fast Purge mode uses the high pressured air to clean the Injector, Antistatic Coating Hose and E-GUN+3 Coating Path. A "FastPurge" sign will appear on the main screen of the E-COAT+3 Master when Fast Purge mode of the device is activated. E-COAT+3 Master P3 Device's Fast Purge mode can be activated by two different ways.

- a. By pressing and holding the Page Button (B2 Button) for 3 seconds.
- b. By pressing and holding the "P" button on the manual E-GUN+3 C1 gun for 3 seconds.

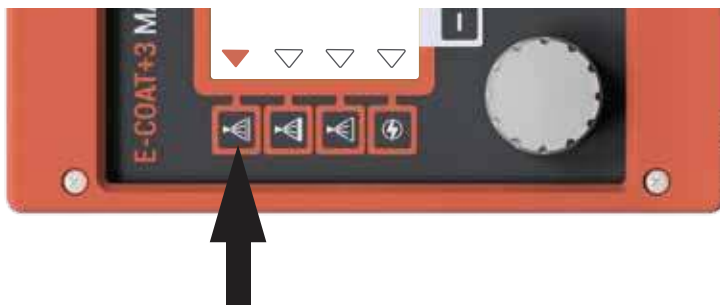


Fast Purge Mode Screen

In the new Fast Purge scenario, the purge mode can be set in 3 modes on the control unit. The "Disable Mode" set on the device indicates that the purge mode is not active. The "Enable A Mode" provides automatic purge of automatic and manual guns. The "Enable M Mode" provides the manual gun to be purged using the trigger.

c.1 Suction Pipe Purge

Depending on the selected recipe (in this case, the first one), the purge mode will be adjusted accordingly. When the Fast Purge function is activated while the first recipe button is active, only the suction pipe will undergo cleaning. During this process, strong air pulses will be emitted from the suction pipe for a duration of 30 seconds.



First Recipe Button



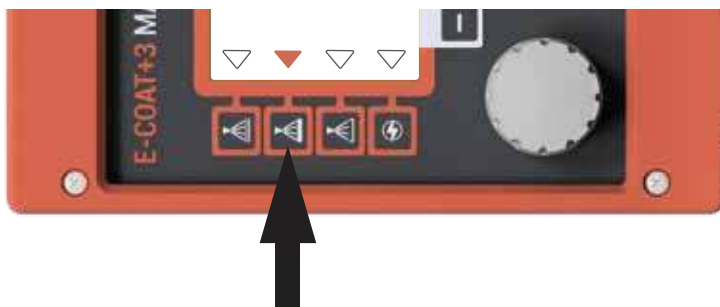
WARNING!

Do not execute Purge Mode if the suction tube is inside the Powder Box or Hopper.



c.2 Powder Coating Gun Purge

Depending on the selected recipe (in this case, the second one), the purge mode will be adjusted accordingly. When the Fast Purge function is activated while the second recipe button is active, only the E-COAT+3 C1 Powder Coating Gun will undergo cleaning. During this process, strong air pulses will be emitted from the Powder Coating Gun for a duration of 30 seconds.



Second Recipe Button



c.3 Complete Purge

Depending on the selected recipe (in this case, the third), the purge mode will be adjusted accordingly. When the Fast Purge function is activated while the third recipe button is active, both Powder Coating Gun and Suction Pipe will undergo cleaning. During this process, strong air pulses will be emitted from the suction pipe and Powder Coating Gun for a duration of 30 seconds.

Note: If no recipe button is selected, the Complete Purge function will be executed by default.



Third Recipe Button



WARNING!

Do not execute Purge Mode if the suction tube is inside the Powder Box or Hopper.



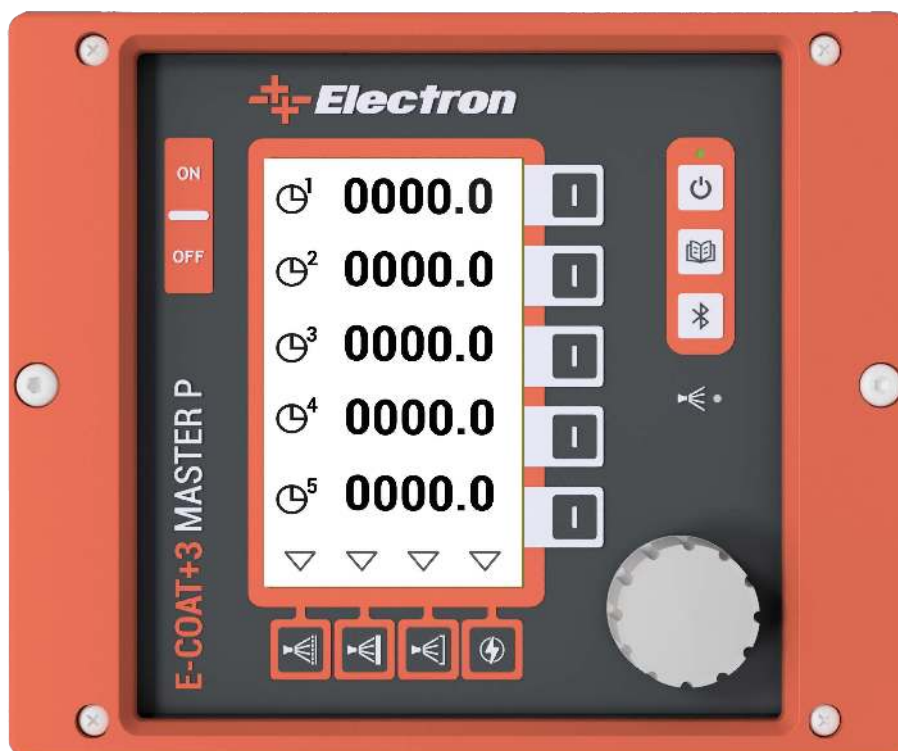
d. Remote Control with E-GUN+3 C1

The user can change the system parameters on E-COAT+3 Master P3 via using the E-GUN+3 C1. The buttons which are marked "P", "+", and "-" are explained below.

Button	Function
P	The user can change the system parameters on E-COAT+3 Master P3 via using the E-GUN+3 C1. The buttons which are marked "P", "+", and "-" are explained below.
+	Value decrease
-	Value increase

e. Consumable Counters

E-COAT+3 Master P3 is designed with consumable counters so that the use would be always aware of the materials. You can open the counter via pressing the B2 button for two times. The user can also adjust the counters to create a warning when the consumables are about to finish or when they are finished. See the counters on the screen below.

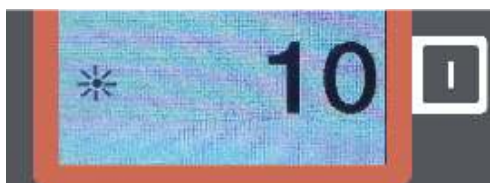


Consumable Counters Screen

The user can differentiate between consumables and adjust five different consumables on the screen. The counters will warn the user when they reach to zero if they are not reset. A “!” sign will lit and blink on the bottom of the main page when a counter has reached to “0” and the counter is not reset by entering into the counters page for acknowledgement. The blinking “!” sign will disappear from the screen when user enters to the counters page to acknowledge the counter alarm. The unit of the counters are “Hour”.

f. Screen Brightness Adjustment

E-COAT+3 Master P3 electrostatic powder paint control unit screen brightness can be adjusted by the user. The LCD screen allows the user to change the brightness from the B15 segment button shown below in the second part of the Main Page. Reaching to the second part of the Main Page is from pressing the B2 button once.



Part-2 Screen Brightness Segment

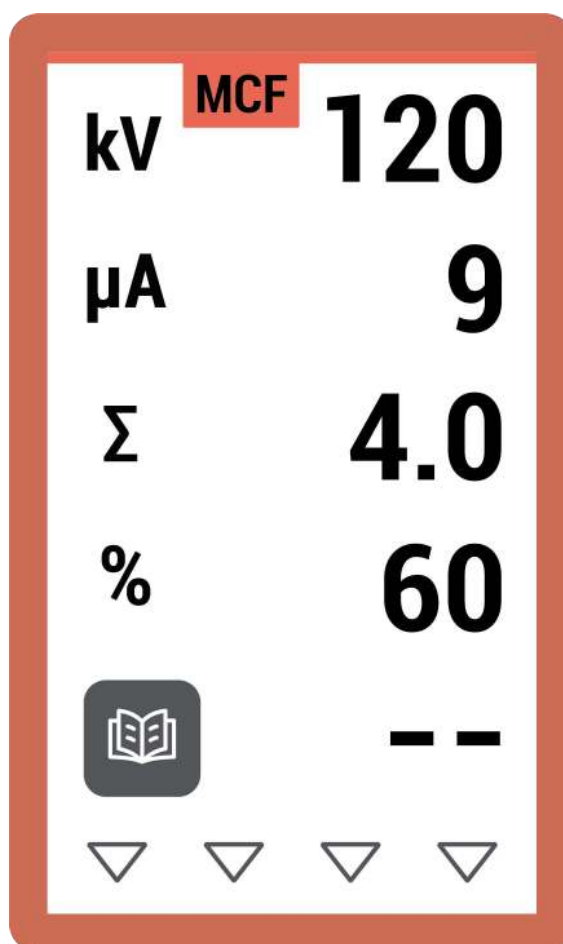
The screen brightness can be adjusted between the values 1 to 10, 1 showing the lowest brightness and 10 showing the highest.

Info: E-COAT+3 Master P3 control unit is installed with standby mode. If the buttons are not used on the control unit or on the E-GUN+3, the control unit changes the brightness level to 1. Any input while in standby mode switches the control unit to the normal mode and the brightness becomes to the normal level.



When the rotary knob is turned beyond level 10, the dim function is deactivated and fair mode is automatically activated.

g. Micro Charge Feedback



Micro Charge Feedback

When coating simple components with some complex geometries, the control unit setting can be set below 10 microamps to prevent overcoating. In this state, the control unit automatically switches to precise MCF (Micro Charge Feedback) mode. With this mode, the control unit takes more current samples and the charge loaded on the paint can be controlled at the micro level and precise coating process can be performed. Although the μA value on the screen will vary when the gun is triggered, the setting will remain below 10 microamps in the background.

2.10. Communication with the Electron App

The control unit is prepared for communication* with the Electron App.



NOTE:

The Electron App is optimized for mobile devices with a screen diagonal up to 17 cm.

The app enables customers to improve their productivity by providing the following areas:



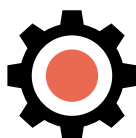
Application

All important application parameters are clearly displayed on the mobile device and can be adapted immediately.



Line management

The coating productivity data can be retrieved at any time. Statistics and cost estimates of the order are generated automatically. Maintenance can be scheduled.



Setup

This configures the E-Coat+3 Master P3 control unit. The E-Coat+3 Master P3 can be controlled individually or as a participant in a group.



Service

Enables direct access to the operating instructions of the system components and to the Electron website.

The secure connection between the control unit and the device can be established very easily with the help of the  key.

The prerequisite for this is that every control unit in the system already has its own Bluetooth ID number. See chapter "System parameter (Bluetooth ID no.)" on page 31.

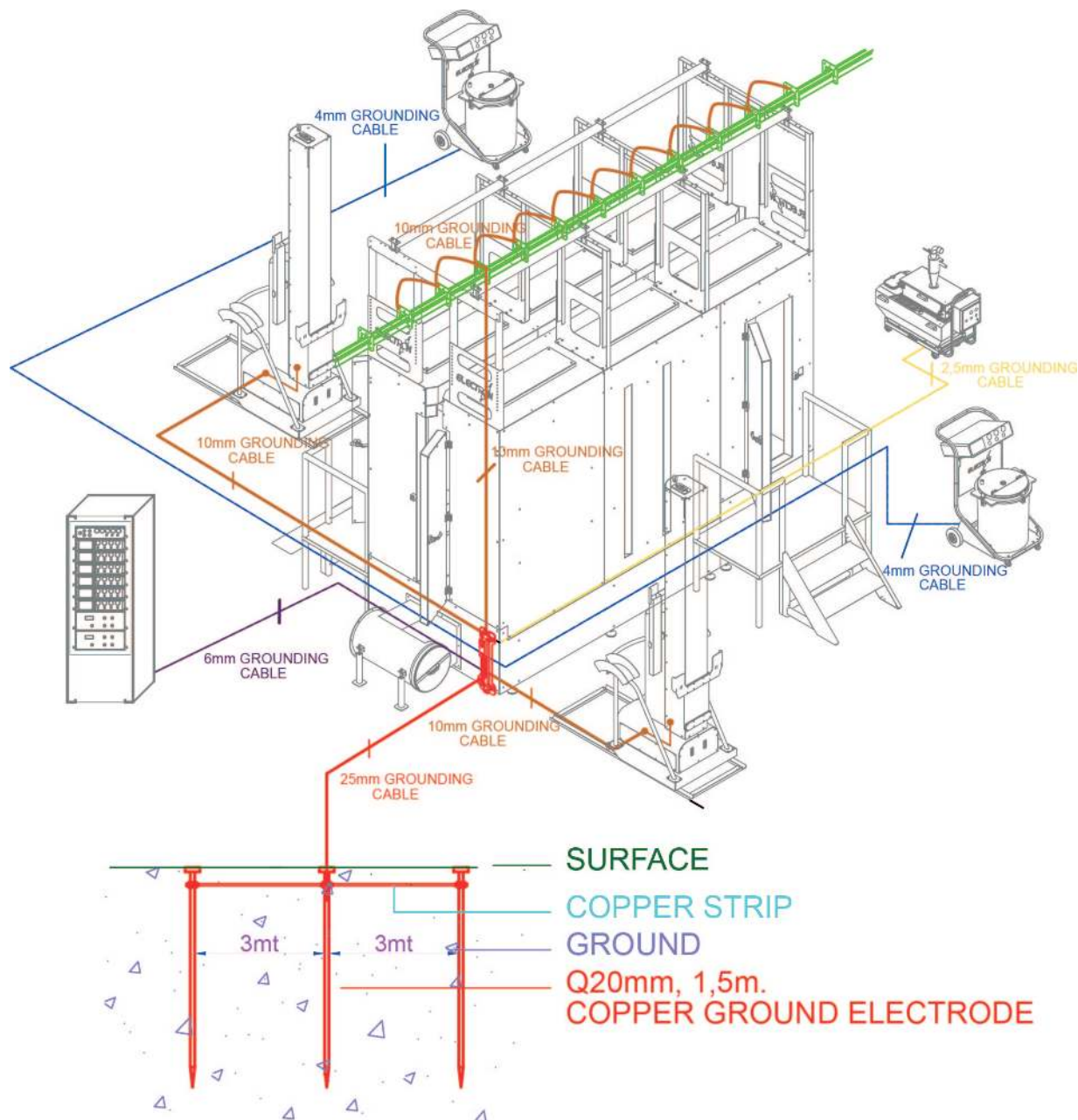


NOTE:

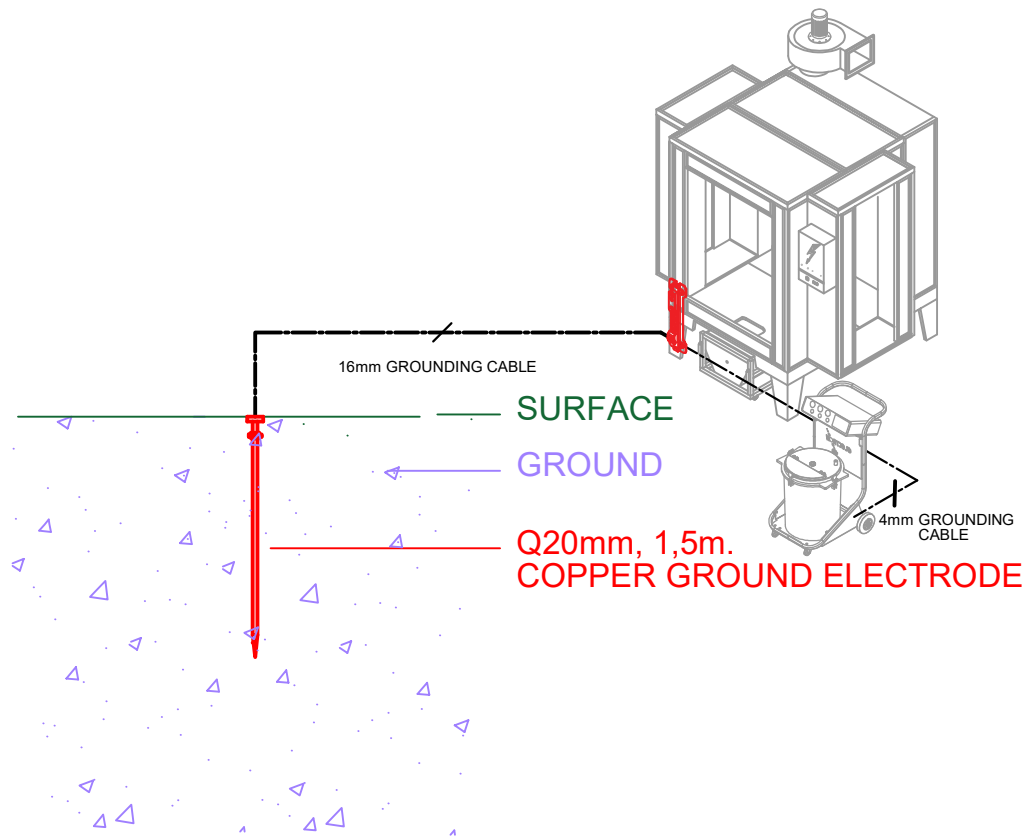
A description of the app can be found in a separate manual.

3. Start Up

3.1. Grounding



DEVICE QUANTITY	SPIKE AMOUNT	CABLE THICKNESS
 ≤ 4	1	16 mm ²
4 <  ≤ 8	2	16 mm ²
8 <  ≤ 12	3	25 mm ²
12 <  ≤ 16	4	25 mm ² +16 mm ²
16 <  ≤ 20	5	25 mm ² +16 mm ²
20 <  ≤ 24	6	25 mm ² +25 mm ²
24 <  ≤ 28	7	25 mm ² +25 mm ²
28 <  ≤ 32	8	25 mm ² +25 mm ²
32 <  ≤ 36	9	50 mm ² +25 mm ²

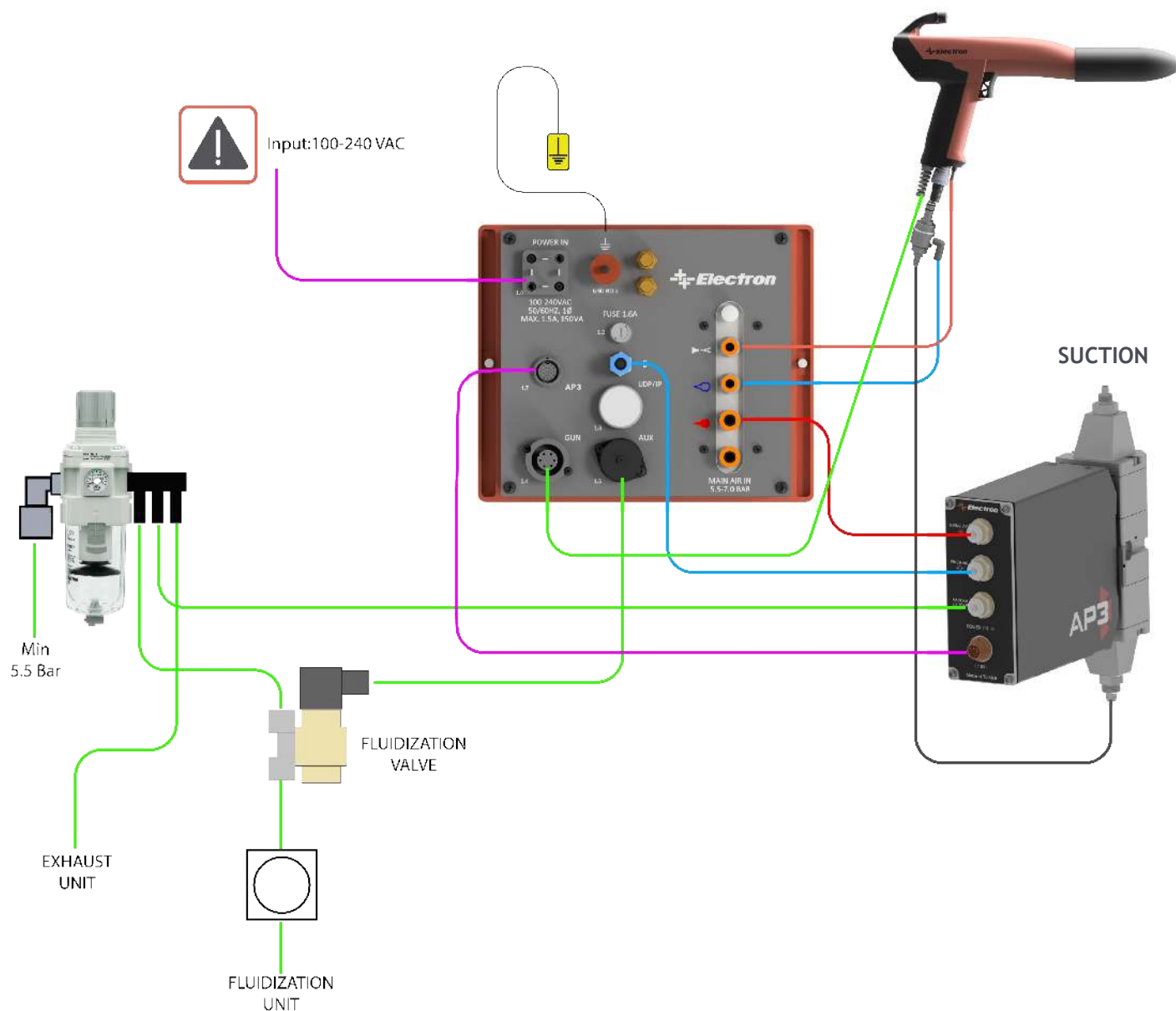


All electricity conducting parts and machinery in the workplace must be earthed. Please connect a ground wire 1.5 meters before the entrance of the cabinet, in the middle of the cabinet and 1.5 meters after the exit of the cabinet. The grounding resistance must amount to a maximum of 1 MOhm resistance has to be tested regularly. The appropriate devices must be kept in the workplace for regular grounding checks.

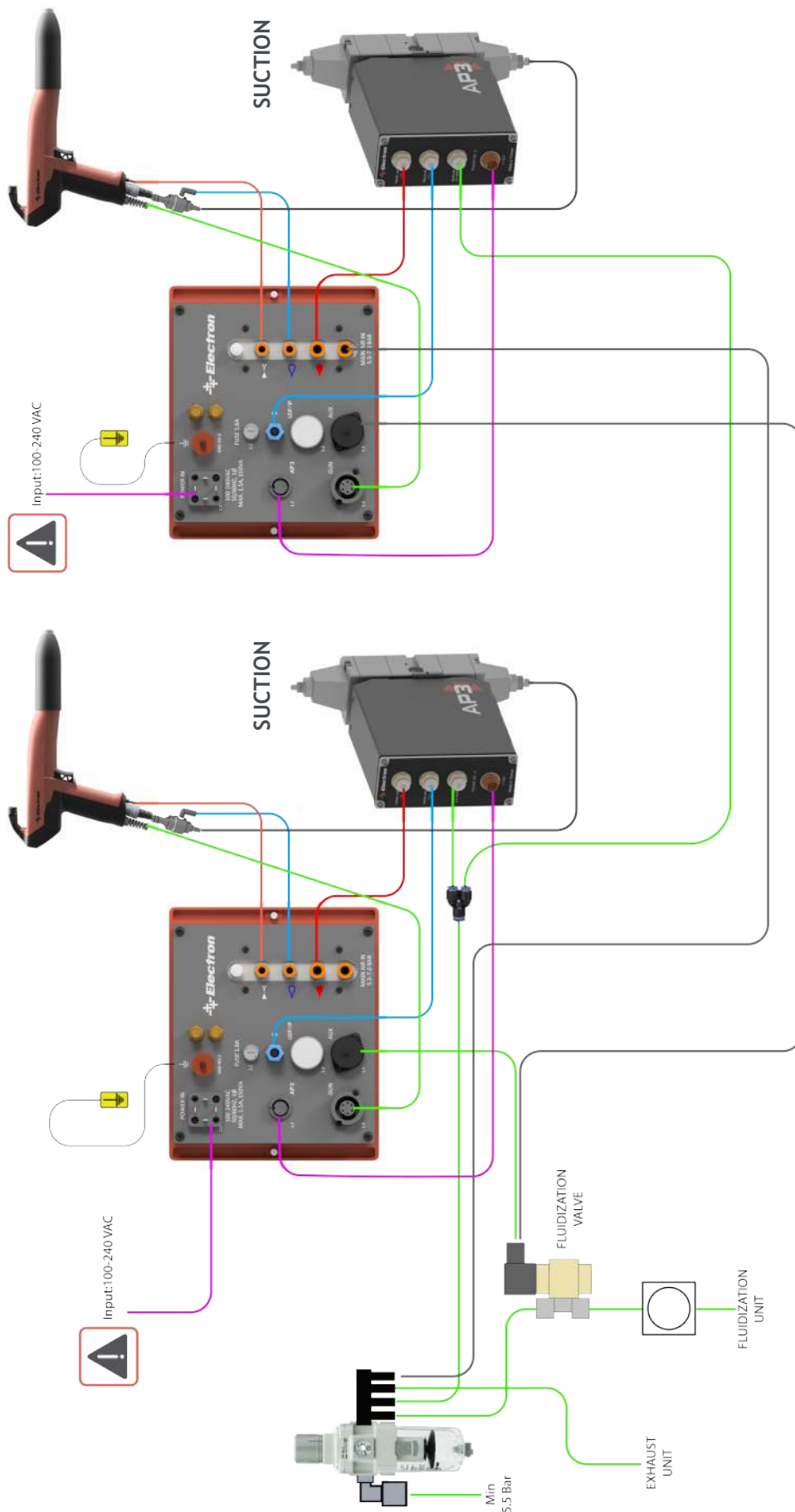
Grounding cable must be connected to the grounding screw of the electrostatic powder spraying hand appliance. It should have a good connection with the booth, hopper and conveyor chain (if used).

3.2.Installation

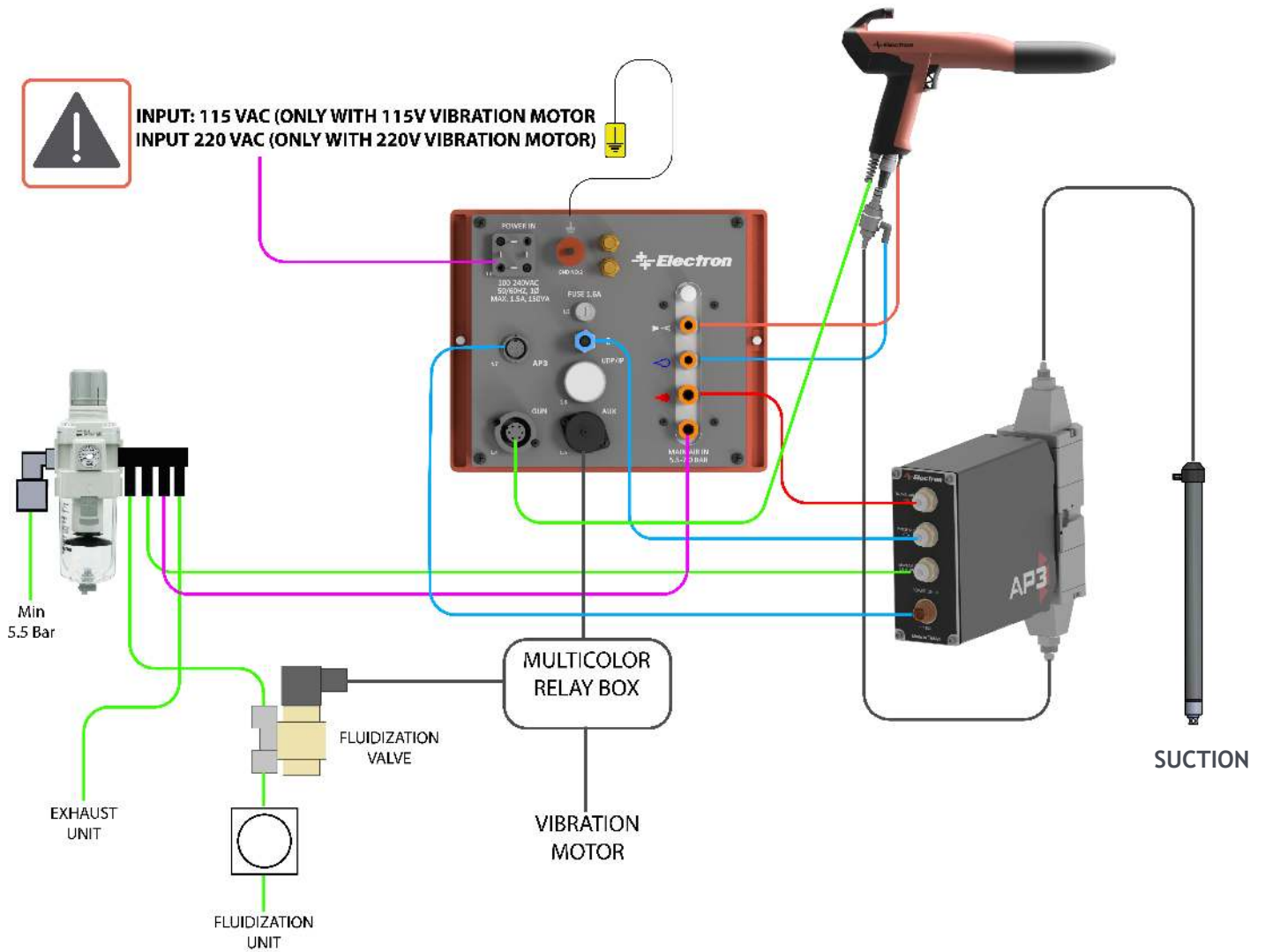
a. “Bare” and “H” type Device Electro-Pneumtical Connections (For E-FEED +3 AP3)



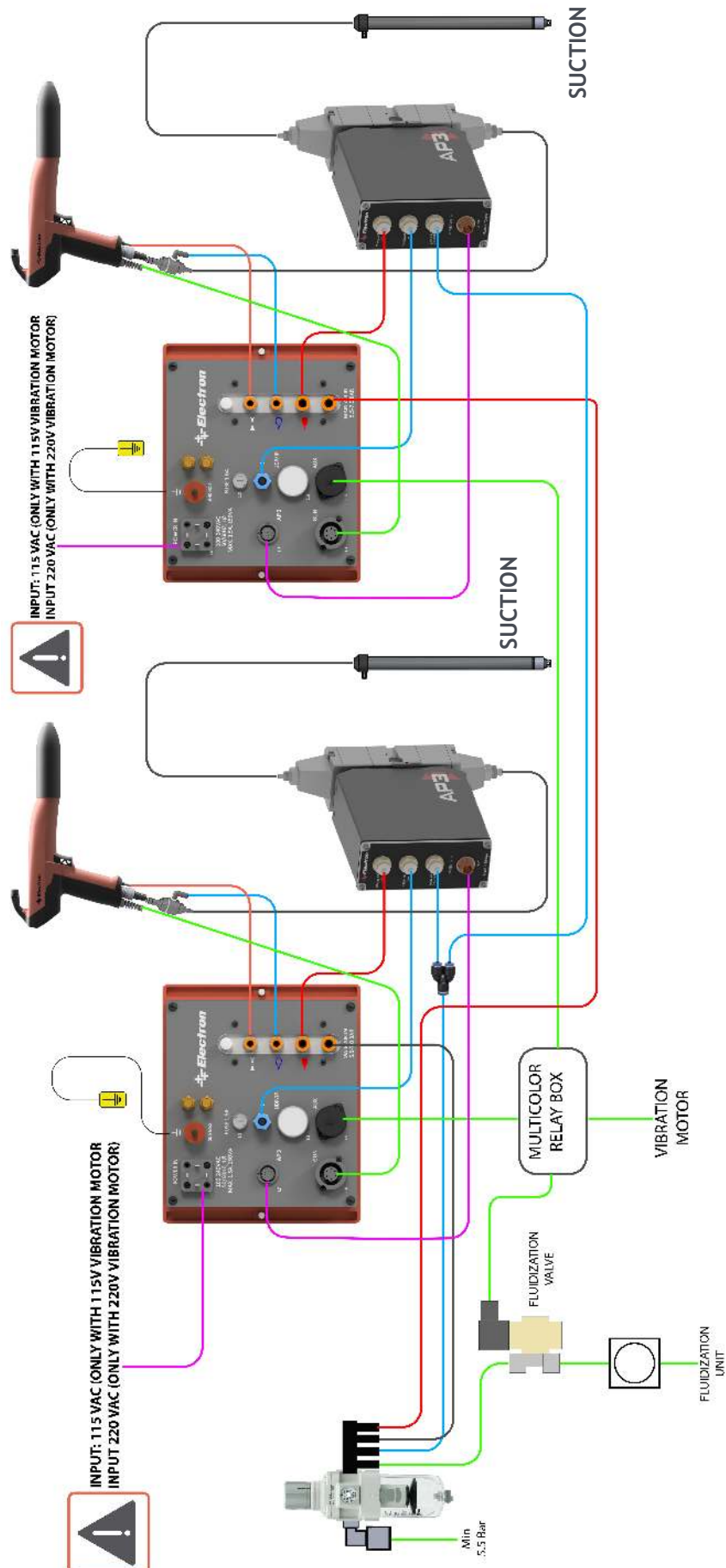
b. Dual “Bare” and “H” type Device Kits Electro-Pneumatical Connections (For double E-FEED +3 AP3)



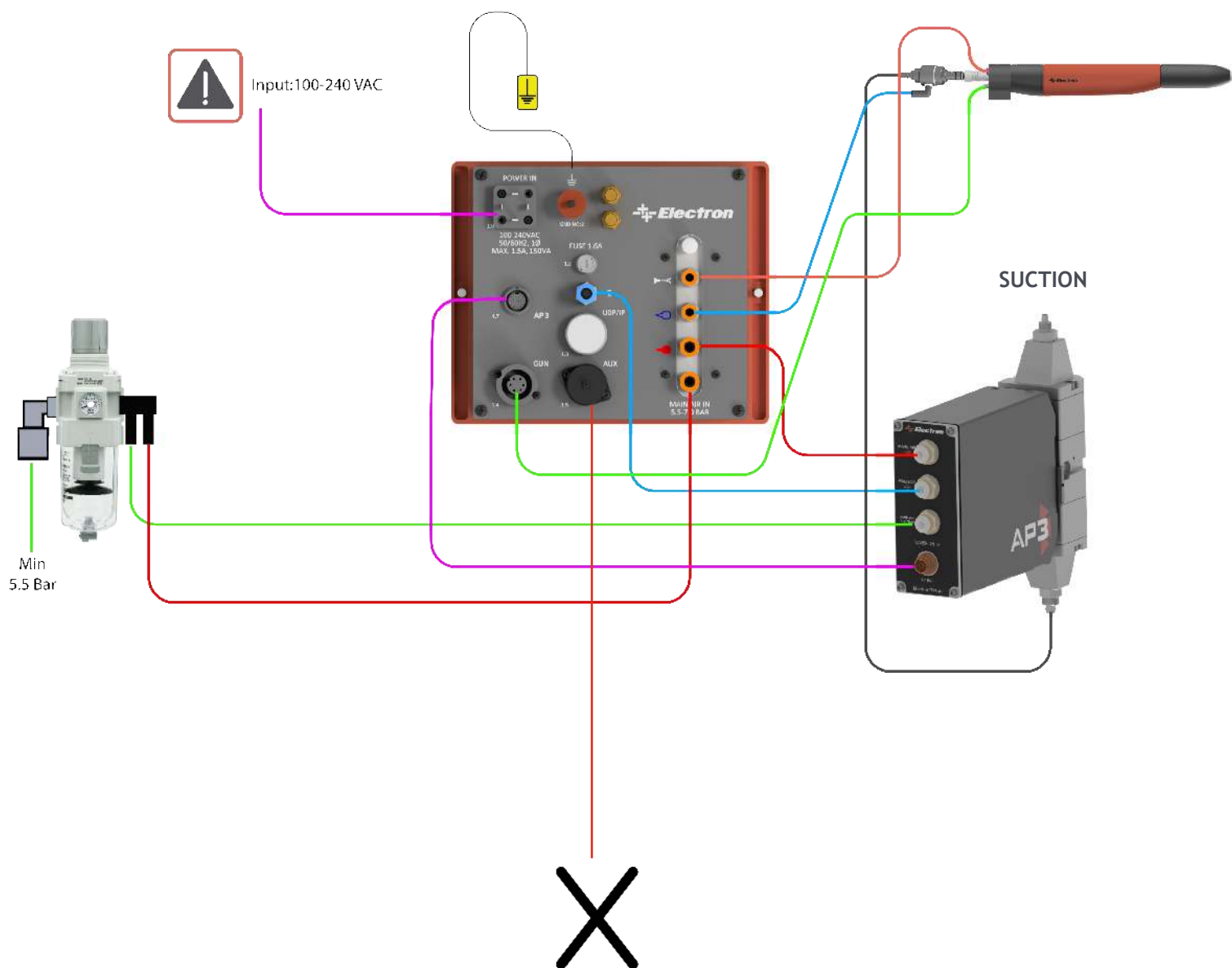
c. "P3-M" type Device Kits Electro-Pneumtical Connections (For E-Feed+3 AP3)



d. Dual “P3-M” type Device Kits Electro-Pneumtical Connections (For double E-FEED +3 AP3)



e. "P3-A" type Device Kits Electro-Pneumlectro-Pneumactical



Note: Do not use the aux output with P3-A configuration

3.3.Set Up

Info: E-COAT+3 Master P3 Powder Coating Control unit always starts with the last used configuration preferences.

In the above “System Connections” figure, all the electrical and pneumatic connections are shown. After correctly connecting the device, the user can press the “Main Switch” to start the control unit. The below procedure should be done at the first Start up.

E-COAT+3 Master P3 should be calibrated according to the products that are going to be powder coated before the start up. Once you are in the “Main Page” Press the B1 interface button for 5 seconds and the Setup Page will appear. The B1 button can be used to return back to the Main Page. B1 button also works as a “Save” button to save the changes in the SETUP PAGE.

Info: If the control unit is not used or a button is not pressed for 15 seconds time, the control unit automatically goes back to the “Main Page”.

The available calibrations for the “Calibration Pages” are stated in the below table.

Calibration Preferences

Code	Code Info	Preferences	Factory Preset
C-1	Control Type Selection (MODE)	0 = Automatic 1 = Manual w/ Hopper 2 = Manual w/ Multicolor	1
C-2	Gun Type	0 = Corona 1 = Tribo	0
C-3	AUX Delay (output latency after trigger release (s))	0-100	2
C-4	Pneumatical Control Type	0 = Proportional	0
C-5	Pneumatical Flow Units	0 = lt/m 1 = Nm3/h 1 = Cfm	1
C-6	Purge Valve Opt.	0 = Disabled 1 = Enabled M 2 = Enabled A	0
C-7	Gun Cable Length (m)	5-25	7
C-8	Language	0 = English 1 = Türkçe 2 = German 3 = Chinese 4 = Russian	0
PCF1	Non-Functional Parameter	0	0
PCF2	Non-Functional Parameter	0	0
PCF3	Non-Functional Parameter	0	0

Pump Calibration Preferences

Code	Code Info	Preferences	Factory Preset
PSV1	Pinch valves purge mode pressure [bar]	3 - 5,5	4.5
PSV2	Pinch valves conveying mode pressure [bar]	5,5	2.5
PSV3	Non-Functional Parameter	0	0
PSV4	Pump working period [ms]	360-660	540*
PSV6	Non-Functional Parameter	0	0
PSV7	Non-Functional Parameter	0	0
PSV8	Threshold value for pinch valve error	0-20	7

*It's recommended value, changing it may reduce pinch valve lifespan.

3.3.1. Saving Pump Calibration Preferences

E-COAT+3 MASTER P3 DEVICE CALIBRATION

PCF1 = minimum suction time (ms) 12-50 (default 25)

PCF2 = transfer air constant 30-60 (default 45)

PCF3 = transfer air variability coefficient 0-60 (default 20)

PCF4 = auxiliary air variability coefficient 0-60 (default 20)

PSV7 = back flush value (ms) 0-20 (default 0)

Calibration:

Ensure that the inlet pressure is between 6-6.5 bar, and adjust it to this level.

1. Set the device from the main screen to Σ 2.0, %15.

2. From the calibration screen, increase PCF1 until powder output is observed. Powder output is generally seen between 25-35. For heavy (large particle) powders and thermoplastic types, it is recommended to directly set this value to 50.

3. PCF2 is used to adjust the minimum air required to push the powder through the transfer hose. PCF2 (default 45) should be set to the lowest level that prevents spitting.

- For a hose length of 7 m (device trolleys), PCF2: 35-45

- For a hose length of 20 m (automatic systems), PCF2: 45-55 is practically suitable.

4. Set the device from the main screen to %80 (Σ remains 2.0). Return to the calibration screen and adjust PCF3 until spitting stops. (Recommended: between 20-25)

IMPORTANT NOTE: Setting PCF2 and PCF3 to the lowest possible levels will ensure maximum powder output. Higher PCF2 and PCF3 values will reduce powder flow and cause intermittent output.

5. From the main screen, set to Σ 4.5, %80. Adjust PCF4 until a homogeneous powder output is observed. PCF4 only regulates the increase/decrease of auxiliary air and creates the YH' value in the formula.

6. PSV7 (default 0) should only be increased gradually in case of powder blockage and kept at the minimum level that solves the issue. (It is practically recommended not to exceed 10 for PSV7.)

IMPORTANT NOTE: Increasing the PSV7 value will reduce powder output. It should only be used when necessary.

Save the created recipe to the desired location. When the recipe is recalled, the calibration values will also be retrieved. Thus, it is sufficient to create the recipe only once for each powder type.

APPENDIX: TERMS AND FORMULAS

Σ = total air on the device main screen

% = powder percentage on the device main screen

$\Sigma = TH + YH$

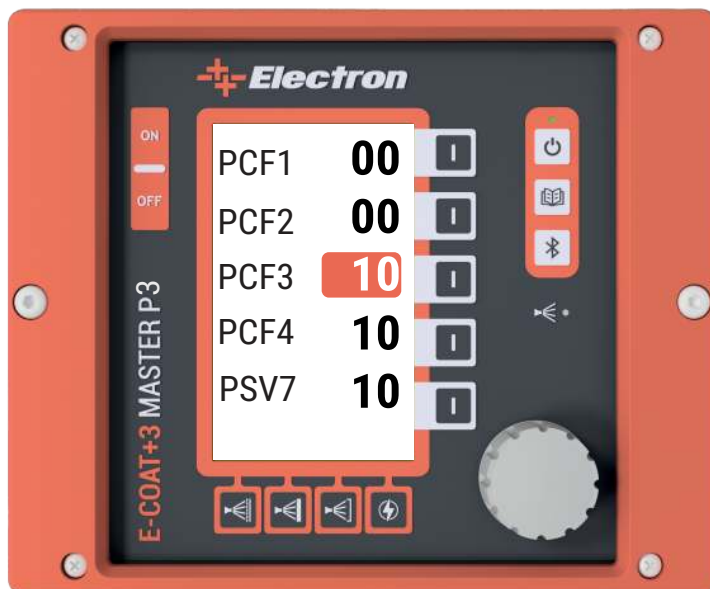
$TH = PCF2 + (PCF3 / 100 \times \%)$

$YH' = YH + (PCF4 / 100 \times \%)$

The values sent to the proportional valves are TH and YH' from the formula.

3.3.1.1. Saving Pump Calibration Preferences - Predefined Recipes

In this operating principle, the user can save and change his own operating parameters. There can be 50 prescriptions starting from P01 to P50, four of which P01-02-03-04 are factory predefined recipes. These predefined recipes are explained in this manual. Different pump calibration settings can be made for these recipes. Following conditions have to prevail:



Page of Pump Calibration Preferences



B6 Buttons*



B7 Buttons*



B8 Buttons*



B9 Buttons*

Predefined Recipe Recall Buttons

- To activate the function, please press the B2 button three times.
- The calibration page for the pump will then become visible.
- Once the requisite calibration settings have been completed, the B2 button should be pressed once.
- Please direct your attention to the display page.
- Once the requisite calibration settings have been completed,
- In order to save the setting to the prescriptions, it is to press the Predefined Recip button (Please refer to page 13.) button for a period of four seconds.
- Upon observation of the flashing indicator on the prescription page, it can be ascertained that the save operation was successful.

* Please refer to page 12.

3.3.1.2. Saving Pump Calibration Preferences -Other Recipes

In this operating principle, the user can save and change his own operating parameters. There can be 50 prescriptions starting from P01 to P50. Users can manually define 50 different recipes they want. Different pump calibration settings can be made for these recipes.

Following conditions have to prevail:

- To activate the function, please press the B2 button three times.
- The calibration page for the pump will then become visible.
- Once the requisite calibration settings have been completed, the B2 button should be pressed once.
- Please direct your attention to the display page.
- Use the rotary dial to set the number of the prescription you want to set
- Once the requisite prescription number has been displayed, please press and hold the B15 button for four seconds.
- Upon observation of the flashing indicator on the prescription page, it can be ascertained that the save operation was successful.

3.4. Operation

a. Creating and Saving a User Recipe:

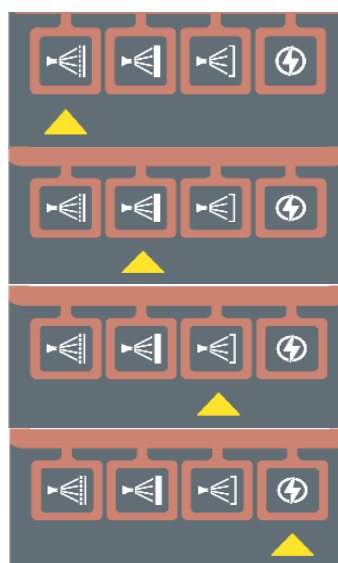


Recipe Segment

After adjusting the values from the control unit, the user can save the recipe for future usage. To save the current recipe, press and hold the segment button next to the recipe segment button for three seconds. You will see the recipe number flashing every 500ms. The user then chooses the recipe number for the current recipe. Turn the knob until the desired recipe number is selected. Once the number is selected the recipe can be saved.

To save the recipe, press and hold the same segment button for three seconds. This time, the screen will start flashing every 200ms for 2 seconds and the recipe will be saved successfully. If instead of pressing and holding for three seconds, the user presses the button, the current recipe will not be saved and the screen will turn to its first position.

b. Predefined Recipe Usage



Predefined Recipe Recall Buttons

Pressing the first predefined recipe on the left side calls the flat surface coating application. After pressing, the screen automatically brings the P01 recipe and the LED indicator will light up. Similarly, if the user presses the button on the middle, the control unit brings up the P02 recipe which is the "Coating on coated Surface", and if the user presses the right button the "Coating on Notched Surface". Recipe will be recalled and the proper LED will light up.

Predefined Recipe Working Parameters are located below

Predifined Recipe Name	High Voltage (kV)	Current (μ A)
Flat Surface Application	100	100
Coating on Coating Application	70	10
Notched Surface Application	100	20
Boost Mode	120	120

Info: Boost Mode is recommended for large flat surfaces.

c. High Voltage Preferences:

There are two different methods in E-COAT+3 Master P3 to change the High Voltage and Gun Output Current. These are as follows:

1. Using the front panel interface of E-COAT+3 Master P3
2. Using the E-Gun+3 C1 Manual type back side interface. As it is shown in the below figures the values can be changed on the first two segments. Once the value segment is selected, the user can adjust the values via rotating the knob on the device.



High Voltage and Current Adjustment Segments

The adjustments set the upper limits of both the High Voltage and Current Values. The values can change while gun operation, according to the coating application, and the type of workpiece. These values will also change according to the length between the workpiece and the tip of the gun. Once the gun is triggered the values can be read on the same segment. The "Orange" coloured parts show the adjusted values on the selected recipe and the "Black" coloured numbers show the real time usage values.

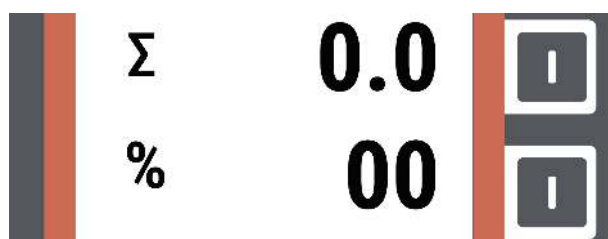
Info: The upper limit of the High Voltage is 120 kV and the current output limit is 120 μ A.

Air and Powder Adjustments:

Pneumatic control types of E-COAT+3 Master P3 powder coating device:

1. Control via the Total Air and Powder Ratio

The user should adjust the value in regards to the air/powder ratio. The total output air per unit time should be calculated and the total powder per unit time should be adjusted accordingly.



Main Page Air/Powder Ratio Control Segments

Info: Air Flows can be selected from C1-4 parameter and also can be seen as Nm^3/h or lt/min .

Info: Air Flows Control mode (as explained on installation) can be adjusted with C1-3.

The E-COAT+3 Corona type powder gun includes High Voltage output the tip of the nozzle, powder output nozzle and nozzle air. This nozzle air can be adjusted. It should be noted that every other nozzle types' optimal adjustment values are different. Nozzle air adjustment can be made from the second page of the interface from the first segment. Like the other air adjustments the user can also see the values in Nm^3/h or lt/min .



Nozzle Air Adjustment Segment

Suggestion: As Factory Pre-set, for the Flat type nozzle groups the Nozzle Air Flow is set to $0,2 \text{ Nm}^3/\text{s}$, for the Circle type and Deflector type nozzle groups it is set to $0,5 \text{ Nm}^3/\text{h}$.

Double-Triggering and Sub-Recipe System:

The E-COAT+3 Master P3 controller unit gives the opportunity to jump between two recipes to its users. The user can switch between any two recipes in a blink of an eye without any need to reach the main controller interface during operation. A recipe can be switched to its sub-recipe such as a “complex parts” recipe when needed. Also, similarly, the sub-recipe can be switched back to its main one just by double-triggering again.

The sub-recipe of each main recipe can be set in the second segment on the second page of the controller. The controller jumps to the sub-recipe desired when “double-triggered” on the manual gun during operation after setting the sub-recipe of any main recipe and saving it.

The “_” symbol defines that the “double-triggering” option is de-activated so that the recipe cannot be changed into any other one even though the manual gun trigger is double-pressed. The recipe should be saved again into a desired number after any change is made to the double-triggering recipe number on the second page. The main reason for re-save is same as other parameter changes where the user goes out of any saved recipe by changing a parameter which is already saved in the main recipe just like other parameters in the main screen. The main recipe, where the user reached from to the sub-recipe, can be called back just by double-triggering again after finishing working with the sub-recipe.



UDP/IP Communication and Master/Slave Option:

E-COAT+3 Master P3 controller unit has an optional connection to an automation system or to any other E-COAT+3 Master P3 device. In this case, the parameters of the controller can be controlled by any UDP/IP based automation system or by any other E-COAT+3 Master P3 device which is set as a “Master” in its network settings. Similarly, The E-COAT+3 Master P3 Device can be set as a “Master” to be able to control other E-COAT+3 Master P3 devices’ parameters where the other devices are set as “Slave” in their network settings. The settings of the network parameters can be reached in the second page of the “Configuration Parameters”.

Code Info	Preferences	Factory Preset
IP Address	IP Address of the device itself.	192.168.000.110
Subnet Mask	Subnet Mask of the Network which the device is connected.	192.168.000.001
Gateway	Gateway of the Network which the device is connected	255.255.255.0
Master/Slave	Master = The device is set as a commander in a network where the operational parameters of this device is sent to other devices. Slave = The device is set as a listener in a network where the operational parameters of the device is copied from a desired master device.	Slave
Master IP	Valid only when the device is set as a “Slave” in the Networks. Defines Master Device’s IP Address in the network. The operational parameters of the device is copied from the Master device of which the IP parameters is pointed in this setting.	192.168.000.100
Network	OFF = Network Communication Disabled ON = Network Communication Enabled	OFF

3.5.Trigger

When triggered the Electrostatic Powder Application Control unit will start applying static electricity to the sprayed powder paint.

The trigger configuration can be done in two different ways.

1. Using the Gun Trigger (In a manual configuration)
2. If the POWER IN socket on the control unit is fed from the number three (3) meaning the terminal control unit's POWER IN socket number 3 feed, starting up a preconfigured equipment will be done via pressing the B1  interface button. If the control unit is active, led will be lit. If the number three (3) cable socket is fed the powder paint will be blown it will be statically loaded.

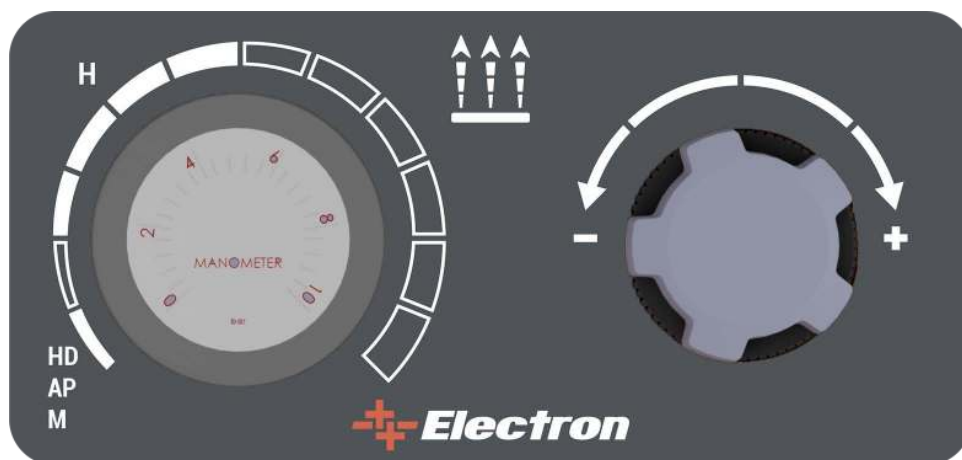
Warning: The 1.0 coded POWER IN socket's inner connections and the fuse connections at the other end should be done by the ELECTRON technicians at the installation. Electron does not accept any responsibility for the possible damage if the equipment is altered or used before installation.

C1 Parameter	B1 Button Status	System Operation
0 = Automatic	 Enabled	The device is ready to be triggered. The device will be triggered when mains phase voltage is applied to pin #3 of POWER IN socket.
	 Disabled	The device is disabled to be triggered. The device will not be triggered when mains phase voltage is applied to pin #3 of POWER IN socket.
1 = Manual (w/or w/out hopper)	 Enabled	AUX socket is powered continuously.
	 Disabled	AUX socket is disabled.
2 = Manual (Multicolor/Stirrer)	 Enabled	AUX socket is powered depending on triggering. AUX is kept powered during triggering and turns off after the time defined in parameter C3 following trigger release.
	 Disabled	AUX socket is disabled.

B1 Button Function Table

Pressing the gun trigger on the manual gun or using the electrical trigger on the automatic gun, if the high voltage and the air/powder ratio adjustments are done, the guns will be spraying statically loaded powder paint. The user can observe this occurrence from the green lit led (D-T marked)  in front of the control unit.

3.6.Fluidization



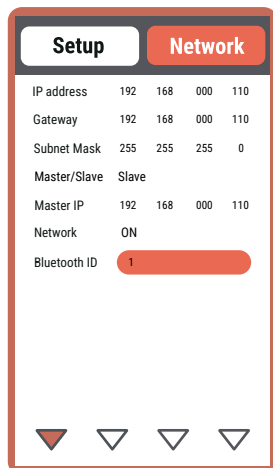
Fluidization Control Panel

A "Fluidization Control Panel" is placed on the mobile device carrier for the operator to easily adjust the fluidization pressure for H type devices with Hopper or M type devices with box fluidized suction tubes. Turning the regulator knob counter-clockwise will decrease or clockwise will increase the applied pressure to the fluidization nozzle in the system. The green and red areas are signed to indicate the approximate operating pressure values for the fluidization air. The fluidization will start in parallel with the vibration motor when the device is triggered if the button is enabled for "M" type multicolor sets. The fluidization will be activated all the time when the device is energized and the  button is enabled for "H" type hopper sets.

3.7. Connect the E-Coat+3 Master P3 control unit to the phone via Bluetooth

3.7.1. System parameter (Bluetooth ID no.)

The Bluetooth ID number is determined with this parameter. An individual Bluetooth ID number must be assigned to each gun control unit that is to be accessed via the Electron app.



The Bluetooth ID of E-Coat+3 Master P3 control unit is defined as proceed follows:

1. Open the control unit
2. Keep the  key on the control unit pressed for three seconds
3. Press 
4. Select Network: **Network**
5. Select a Bluetooth ID value from 1-32 using the rotary button.

3.7.2. Pairing of the Bluetooth module with a mobile device

The first connection setup in which Bluetooth devices are coupled is also called pairing.

Following conditions have to prevail:

- the Electron app has already been downloaded and installed from an app distribution platform
 - ( App Store Keyword "Electron_App")
 - ( Google play Keyword "Electronapp")
- ID number set in System parameter (Bluetooth ID no)
- Bluetooth activated on mobile device

To use Electron App, proceed as follows:

1. Start the Electron App
2. When you press the  button, the blue LED will light up.
3. Press application: 
4. Select the Bluetooth ID that the control unit has.



NOTE:

More information on how to use Electron App can be found in a separate manual.
Devices can be controlled via Bluetooth at a distance of up to 10 meters in an open area.

For the step to group the control units in the Electron application:

1. Start the Electron App
2. When you press the  button, the blue LED will light up.
3. Press application: 
4. Please select the Bluetooth IDs of the control unit that you wish to group.
5. Press Add New Grup:



NOTE:

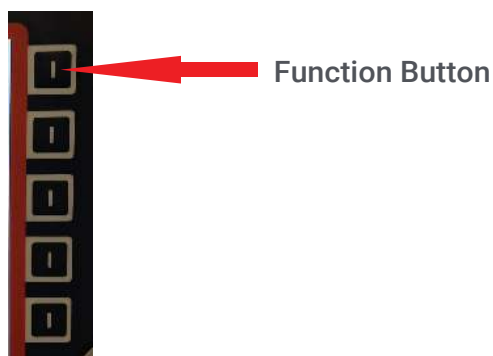
More information on how to use Electron App can be found in a separate manual.



3.7.3 Consumption Values

In Order to reach “Usage Values” tab on the device itself, you should hold  button for 5 seconds.

In this section you can check the hourly, daily, monthly and yearly Powder Consumption Values.



Once you open the Consumption Tab, you can change the date by selecting the section on top right corner of the screen. To select date section, press the first Function Button once, once the date section is highlighted, you can change the value by rotating the Rotary knob.



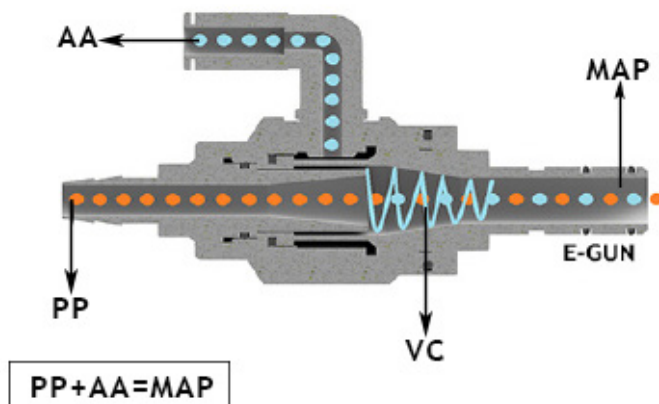
NOTE: The date must be correct in order for the device to function properly.

Once the date is set correctly, you can change the graphic's time scale to hourly, daily, monthly, or yearly. Click the first Function Button to highlight time section then use the Rotary Knob to change the value.



3.8. Spraying air function / diffusers

The coating guns to be used must be equipped with the appropriate spraying air function or with an appropriate diffuser adapter.



MAP: Mixed Air and Powder (Total Air) PP=Powder paint AA: Auxiliary air

E-Gun+3 C3 automatic gun and E-Gun+3 C2 manual gun must also be equipped with an appropriate diffuser adapter. The diffuser is grounded through the powder transport hose with conductive strips!



4. Cleaning and Maintenance

4.1. Cleaning

4.1.1. Gun Body Cleaning

Daily:

- Clean the body of the gun with pressurized air and a clean towel.
- Remove the nozzle torque nut.
- Perform the "complete purge" procedure of the application pump at least once at the end of each working shift.
- Remove the gun nozzle and the electrode and clean the gun with pressurized air.

Weekly:

- Remove the powder paint hose.
- Clean the powder paint input of the gun with pressurized air.

4.1.2. Nozzle Cleaning

Every other shift or at the end of a working day:

- Remove the nozzle torque nut.
- Remove the gun nozzle and clean both the electrode and the nozzle.
- Clean all the powder thoroughly. Never try to scratch the paint with a strong material.

Weekly:

Check the nozzle group for scratches. Change the nozzle group using the spare parts list if needed.

4.1.3. Maintenance

E-GUN+3 C1 type manual and C3 type automatic coating guns is designed to be maintained with minimum effort.

- Clean the powder gun body with a clean towel.
- Make an eye check on the gun cable and input hoses.
- Change the powder and pneumatic hoses if needed.

Part Change

The user can only change the consumables of the gun and some of the E-GUN +3 coating gun parts.

Note: Operations like Changing the Cascade, Trigger mechanism or Gun Cable can only be done by an ELECTRON® approved personnel.

5.Troubleshooting

The failures which are mentioned above can be observed from the “kV “titled segment in the front panel of the device. The fault should be fixed before starting the device and the device should be shut down and start up from the MAIN SWITCH. The other faults in the user interface are explained below.

Failure	Possible Failure Reason	Solution
kV and μ A segments fully blinking “0”	Feedback Signal Failure	- Check the gun cables for a possible tearing - Check the connection between the gun Cascade and the Socket Group inside the gun. - Check Cascade for Malfunction.
Powder Paint is being blown from the gun but the paint doesn't hold on the material. (No High Voltage Output)	- The material is not earthed - The kV parameter is set to 0 - The signal from the gun does not reach to the Cascade.	- Earth the material or improve the grounding. - Set the kV parameter above 0 - Check the connection between the gun Cascade and the Socket Group for a possible short circuit inside the gun.
The gun trigger is working and the High Voltage is working but there is no powder output.	- Blockage in the powder route - Tearing or disconnection between the injector and the control unit.	- Remove the blockage in the powder route. - Change the Air or Powder Ratio other than 0 on the control unit. - Remove the blockage or fix the disconnection.
There isn't any output voltage and the control unit is flashing with kV and μ A signs.	- Gun cable is not connected. - The gun cable is connected but not well fixed to the socket - Gun cable is damaged. - Cascade is damaged.	- Connect the gun hose. - Fix the cable to the socket. - Consult an ELECTRON expert.
The interface buttons are not working as intended.	- The Control Unit front panel membrane has a short circuit or damaged. - The Control Unit is not correctly configured.	- Change the keypad of the membrane. - Check the entire configuration of the Control Unit and redo the configuration if needed.
The rotary Knob is not changing any values on the screen.	- The segment is not chosen. - The Knob is damaged.	- Please select the segment that you want to change. - Change the Rotary Knob.
Powder Paint is being blown from the gun but the paint doesn't hold on the material (No High Voltage Output)	- The material is not earthed - the kV or μA parameter is set to 0 - The signal from the gun does not reach to the Cascade.	- Earth the material or improve the grounding. - Set the kV or μA parameter above 0. - Consult an ELECTRON expert.
Pressing the trigger doesn't start the control unit (The LED in front of the control unit is not lit)	- Gun trigger is damaged - Pump/device is not connected (or broken)	- Consult an ELECTRON expert - Check the device/gun connection

Powder Paint is being blown from the gun but the paint doesn't hold on the material (No High Voltage Output)	1. Blockage in the powder route 2. The Air or Powder Ratio segment is set to 0 3. Tearing or disconnection between the injector and the control unit. 4. If the preferences are adjusted in a well manner, the proportional valve inside the gun might be damaged	1. Blockage in the powder route 2. The Air or Powder Ratio segment is set to 0 3. Tearing or disconnection between the injector and the control unit. 4. Consult an ELECTRON expert
Parameters at the installation are configured but the powder pattern is not well.	1. Wrong device calibration 2. Nozzle life cycle is ended. 3. Pneumatic hoses are damaged/broken or plugged. 4. The air channels are plugged. 5. Pinch valve's life cycle is ended	1. Change the Teflon bushing. 2. Change the nozzle 3. Fix the pneumatic hoses or change them if needed. 4. Clean the powder hoses 5. Carry out fast purge mode

5.1 Error Codes

Error Code	Problem	Solution
E101 NO GUN	The gun is not connected. An incorrect gun is connected. The gun is not recognized by the device. There is a problem with the connection cable.	Connect the appropriate gun (E-Gun+3 C1 or C3). Check the connection cable between the device and the gun. Contact Electron technical service.
E102 NO LOAD	The gun is not connected. An incorrect gun is connected. The gun is not recognized by the device. There is a problem with the connection cable.	Connect the appropriate gun (E-Gun+3 C1 or C3). Check the connection cable between the device and the gun. Contact Electron technical service.
E103 OVER CURRENT	The gun is drawing excessive current. Potential cascade or electronic board failure.	Contact Electron technical service.
E104 EEPROM ERROR	Potential electronic board failure.	Contact Electron technical service.
E105 AP3 NOT CONNECT	E-Feed+3 AP3 pump is not connected or there is a possible disconnection in the cable.	Properly insert the connection cable. Replace the cable if there is a disconnection. Contact Electron technical service.
E106 NO PRESSURE	The device has 0 or very low inlet pressure.	Check that the inlet pressure is 6 bar. Verify that pneumatic connections are properly made.
E107 LOW PRESSURE	The inlet pressure is low at 1.5-2 bar. There is not enough air pressure for the device to operate.	Check that the inlet pressure is 6 bar. Verify that pneumatic connections are properly made.
E108 HIGH AIR CONS.	The device consumes too much air. Tearing in pneumatic hoses or improper connections. Low inlet pressure. Pinch valve failure. Pinch valve has not been periodically maintained.	Check that the inlet pressure is 6 bar. Verify that pneumatic connections are properly made. If all other checks are correct, run pinch valve diagnostics and replace the faulty pinch valve. Perform periodic maintenance on pinch valves. If all conditions are met, increase PSV8 setting by one level.

6. Pinch Valve Lifecycles

Pinch valves, which operate on the principle of opening and closing the flow path with the help of air via a controller, require replacement at certain intervals. The maximum service life of pinch valves is shared below for reference purposes. It should be noted that increasing the operating pressure (default 2.5 bar) will reduce these durations.

Pump Working Period	Lifecycle
360ms	1000 hours
420ms	1150 hours
480ms	1300 hours
540ms*	1500 hours
600ms	1600 hours
660ms	1700 hours

* 540ms is the default and recommended working period



NOTE: Paints with abrasive effects (such as metallic) reduce these service lives.

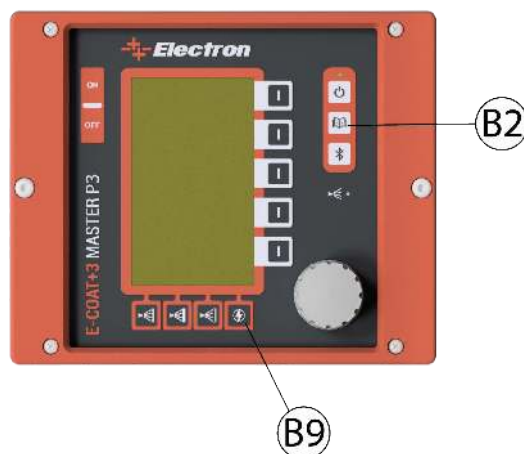


NOTE: It is recommended to schedule maintenance before the indicated hours are reached.

6.1 Pinch Valve Diagnostic

The following diagnostic scenario is used to detect unexpected pinch valve failures (such as wear, punctures, air leakage, etc.) during normal operation.

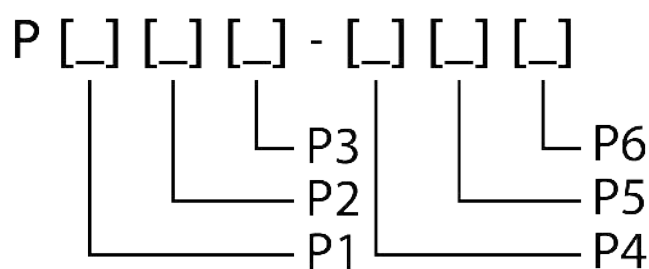
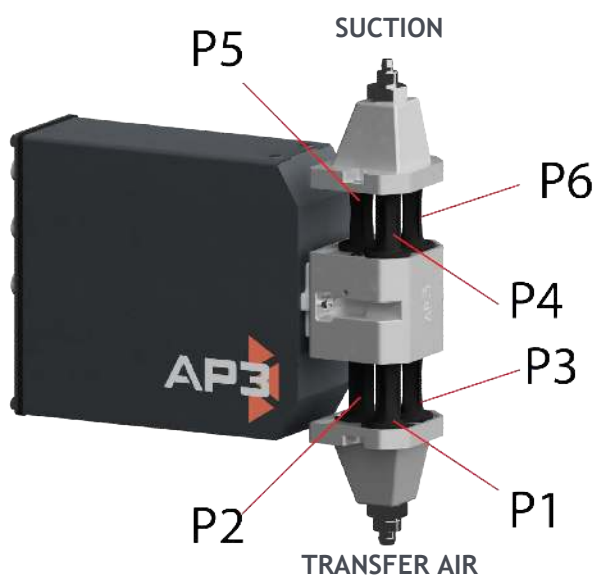
1. Press the "B2" and "B9" buttons simultaneously



2. Check the device inlet pressure. For the diagnostic to function properly, the inlet pressure must be 6 bar or higher.

3. The result is determined based on the code displayed on the screen.

P [] [] [] - [] [] []



If there is a problem in the specified pump, it will display 1 in the related area; if there is no problem, it will display 0. For example, if there is a failure in the 1st and 3rd pinch valves, the code displayed will be "P 101 - 000".

6.2.MAINTENANCE / Periodic Check

6.2.1 Wearing parts

The wearing parts to be replaced during the E-Feed +3 AP3 Application pump maintenance are available separately (see spare parts list).



WARNING!

All unauthorized modifications to the product are forbidden for safety reasons, and exempt the manufacturer from any liability from resulting damage!

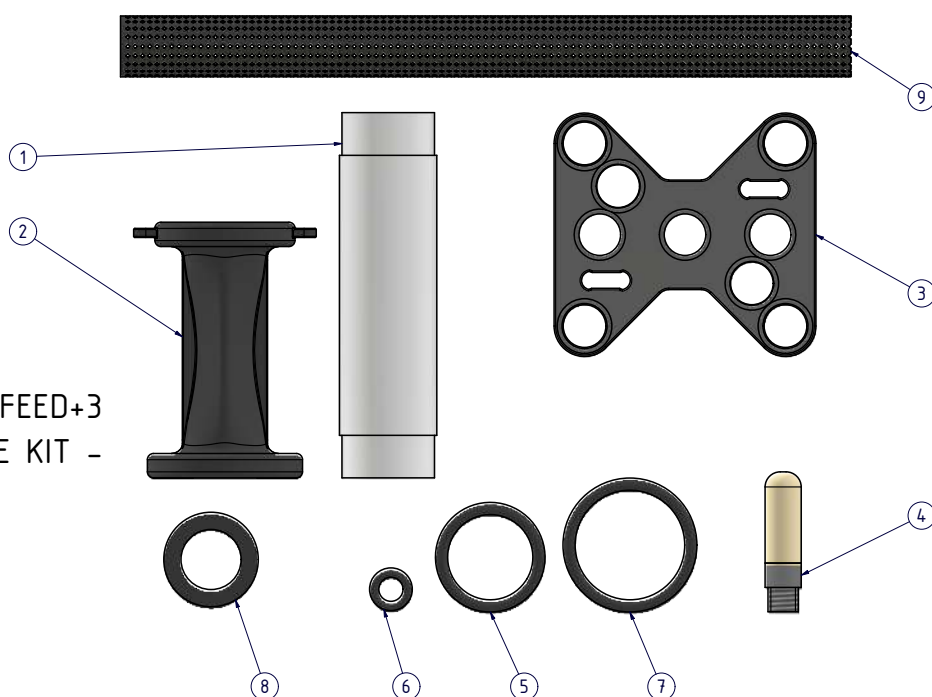
Regular, careful cleaning and maintenance extends the service life of the product and ensures long-lasting, uniform coating quality!

- The parts to be replaced during maintenance work are available as spare parts. These parts can be found in the corresponding spare parts list!

General information

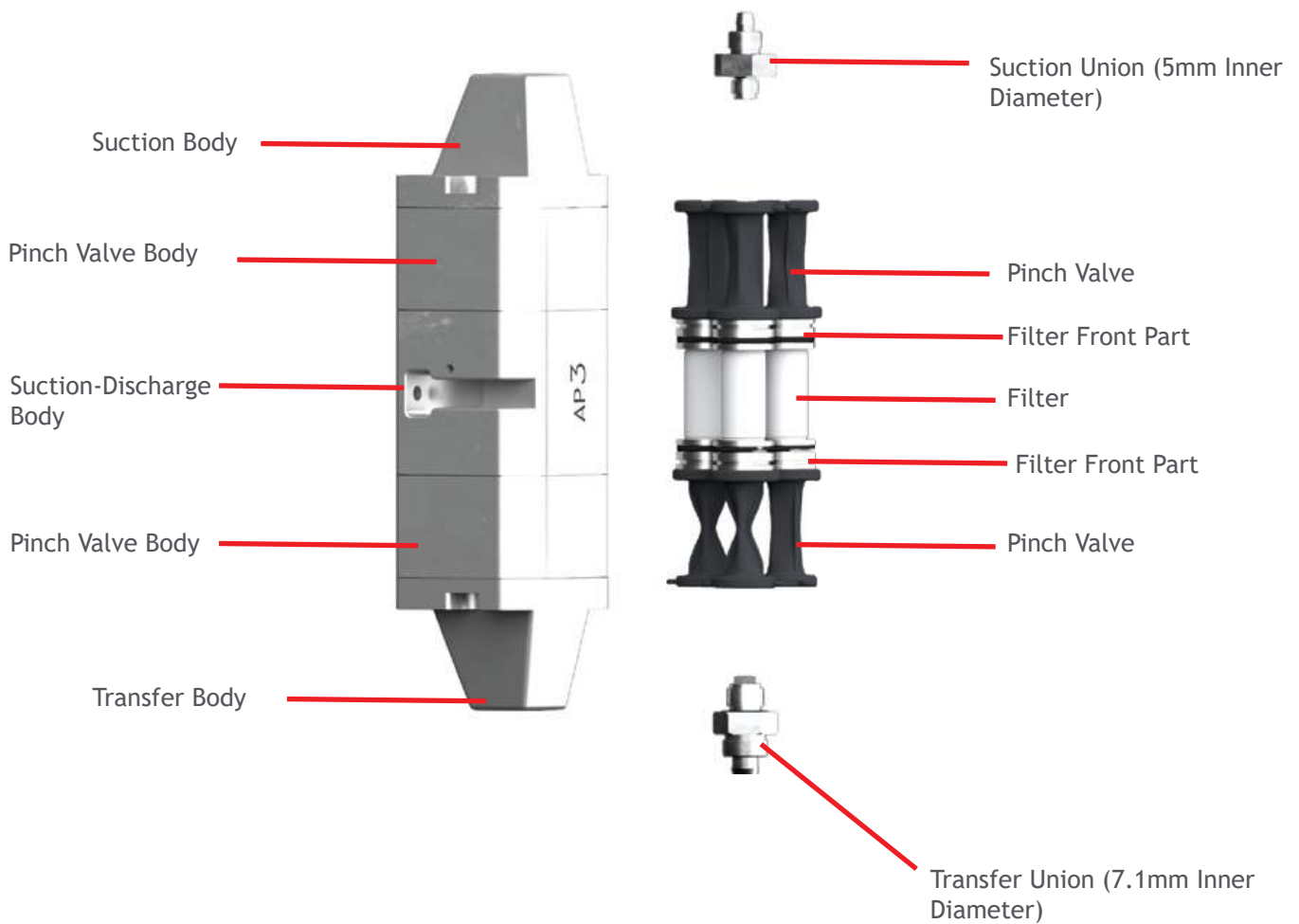
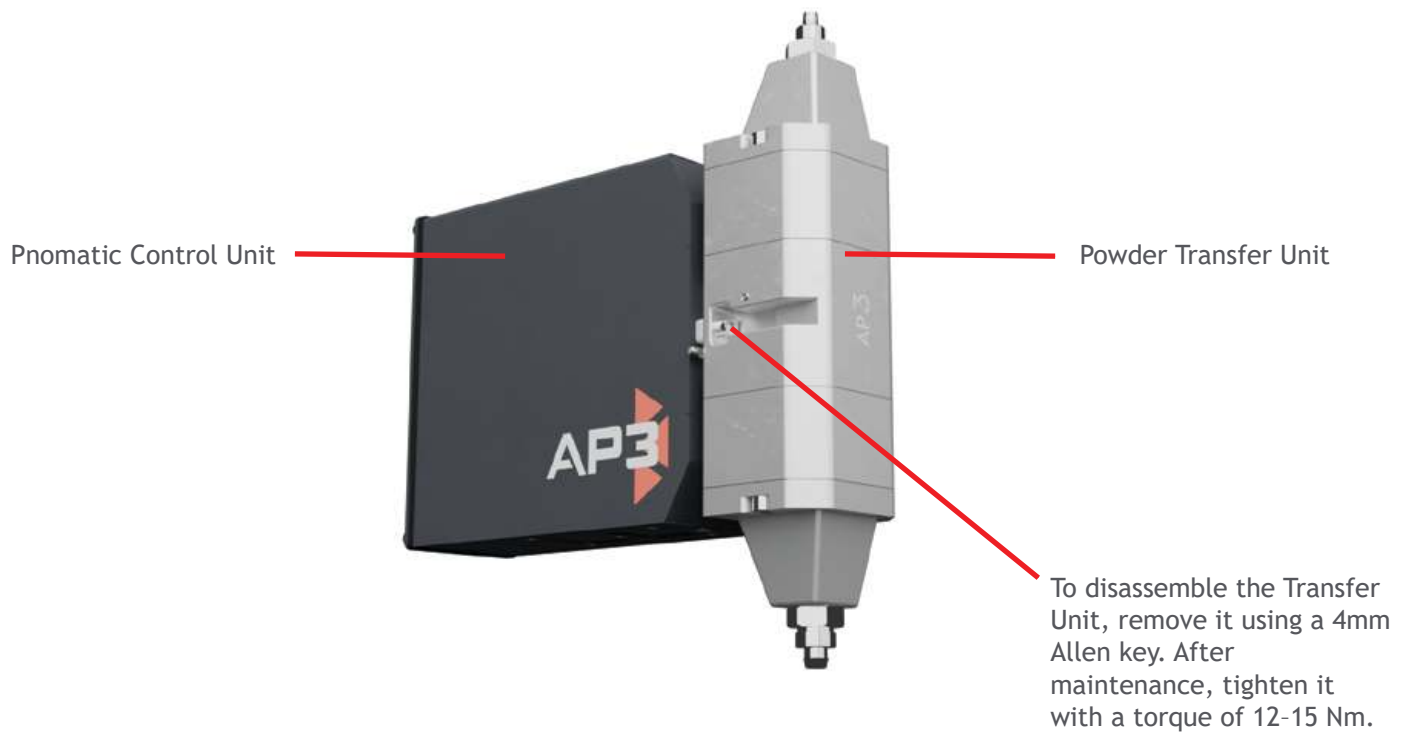
The product is designed in such a way, that only a minimum maintenance is required.

6.2.2 Required Spare Parts



B07FAP3004 - E-FEED+3
AP3 MAINTENANCE KIT -
COMPLETE

Part No	Order Code	Part Name	Qty
1	FRFL08004	FILTER UHMW-PE Ø10-Ø16 L60 0.5 MICRON E-FEED AP	3
2	PNPE06003	PINCH VALVE DN7.5 E-Feed +3 AP3	6
3	ENEM04013	GASKET E-FEED+3 AP3 MANIFOLD-POWDER PATH CONNECTION	1
4	FRFL08012	FILTER M5X0.8 Ø5.96 L22	6
5	IZOR01096	O-RING 14X2 NBR70	2
6	IZOR01098	O-RING Ø4X1,5 NBR70	6
7	IZOR01006	O-RING Ø16X2 NBR70	6
8	IZCS01008	GASKET EPDM 3MM E-Feed +3 AP3 FILTER INNER	6
9	ELKA13002 - 200mm	CABLE SLEEVE L200	1



6.3 Maintenance of the Application Pump

6.3.1 Cleaning The Application Pump (Color Change)

For the preparation of a color change, the pump has to be rinsed.

The rinsing procedure can be started and stopped only externally via control unit or plant control.

- *The Application pump must be cleaned at least once per shift!*

6.3.2 Periodic Checks

The periodic checks include examining all connecting cables and hoses.

The corresponding parts should be replaced immediately if any damage to cables or hoses is discovered.

All plugs must be properly tightened.

6.3.3 Repair Work

In the event of a fault, the product must be checked and repaired by an authorized Electron service workshop. The repairs must only be performed by an authorized specialist.

Improper tampering can result in serious danger for user and equipment.

6.3.4 Replacing the Pinch Valve Hoses and Filter Elements

Before dismantling/changing the filter elements, it is necessary to clean the Application pump in both directions by using the rinsing program!

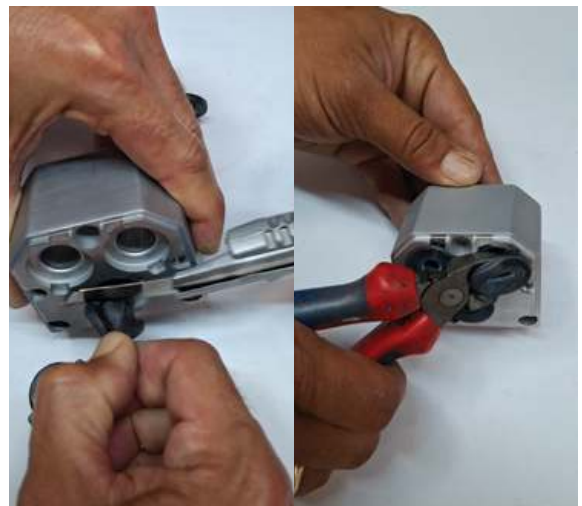
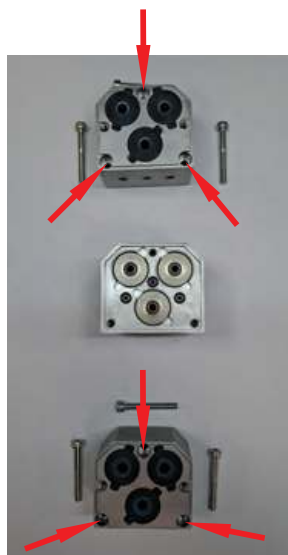


Required Tools;
2 pcs thin flat screwdriver
20mm Wrench
Utility Knife or Diagonal Cutter
4mm Allen
5mm Allen

Note: It is mandatory to use personal protective equipment when using cutting tools.



Start by removing the two M6x20 bolts located above and below the Powder Transfer Unit using a 5mm Allen key.



After lifting the upper and lower domes, remove the three M5x40 bolts in the opened section using a 4mm Allen key to detach the Powder Transfer Unit.

Firmly grip the Pinch Valves and pull them out of their sockets to cut them. You can dispose of the worn Pinch Valves in the plastic section of the recycling bin.



The cut Pinch Valves and the Pinch Valve Body Block with the Pinch Valves removed are as shown in the image.



When installing the new Pinch Valve, make sure that the side with the tabs on the Pinch Valve aligns with the Tab Slots on the Powder Transfer Unit.

Insert the head of the Pinch Valve fully into the Cable Sleeve. Firmly grip the Powder Transfer Block and quickly pull the Cable Sleeve from the other side. This will ensure that the Pinch Valve slides into place smoothly without being exposed to friction.



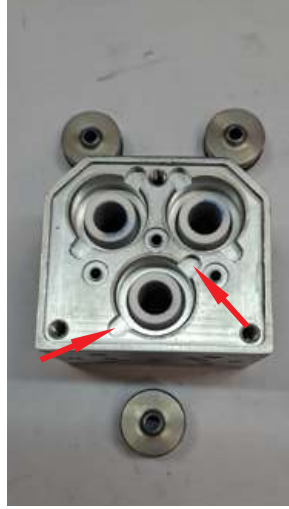
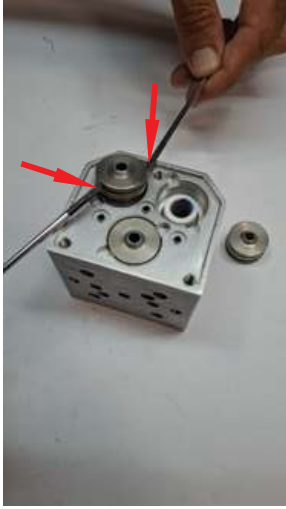
Make sure that the tabs of the Pinch Valve are properly seated in the Tab Slot; if not, place them into the slot.



Make sure that the line on the other side of the Pinch Valve is aligned with the marked lines; if not, adjust it accordingly.



Replace a total of 6 Pinch Valves: 3 at the bottom and 3 at the top.



Remove the Filter Front Piece by inserting two flat-head screwdrivers into the indicated slots.

After removing the Filter Front Piece, you can pull the Filter out from the other side.



Remove the O-Rings using a flat-head screwdriver.

Remove the Gasket using a flat-head screwdriver.



Install the new O-Ring and Gasket onto the Filter Front Piece.



Place the Filter with the renewed O-Rings into its housing. Reinsert the Filter into its position on the Pinch Valve Body and press the Filter Front Piece to snap it into place.

Note: Incorrect installation (or omission) of the O-Ring, Gasket, or Filter may damage the Pneumatic Control Unit. Follow the steps thoroughly.

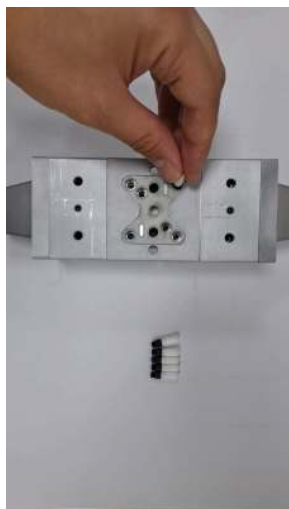
Replace the marked O-Rings.



After replacing the Pinch Valves and O-Rings, secure the Pinch Valve Bodies and the Suction-Discharge Body using the marked bolts. Tighten the bolts with a torque of 12-15 Nm

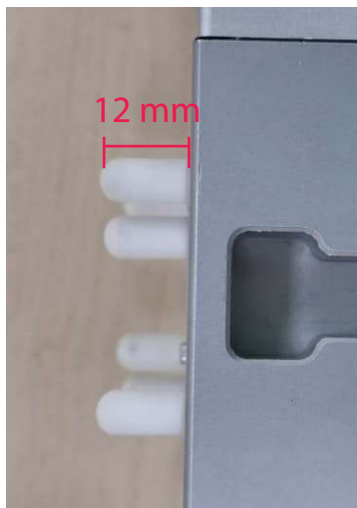
Secure the Transfer Body to the Pinch Valve Body using the marked bolts. Tighten the bolts with a torque of 12-15 Nm.

Note: Check the orientation of the Suction Body and the Transfer Body; the unions of the two bodies have different diameters.



To replace the Powder Path Connection Gasket, first remove the filters. After unscrewing the plugs by turning them, hold the gasket from the corner and pull it out.

Insert the new gasket into place. Make sure the holes are aligned. Fit the slots marked with arrows onto the protrusions.



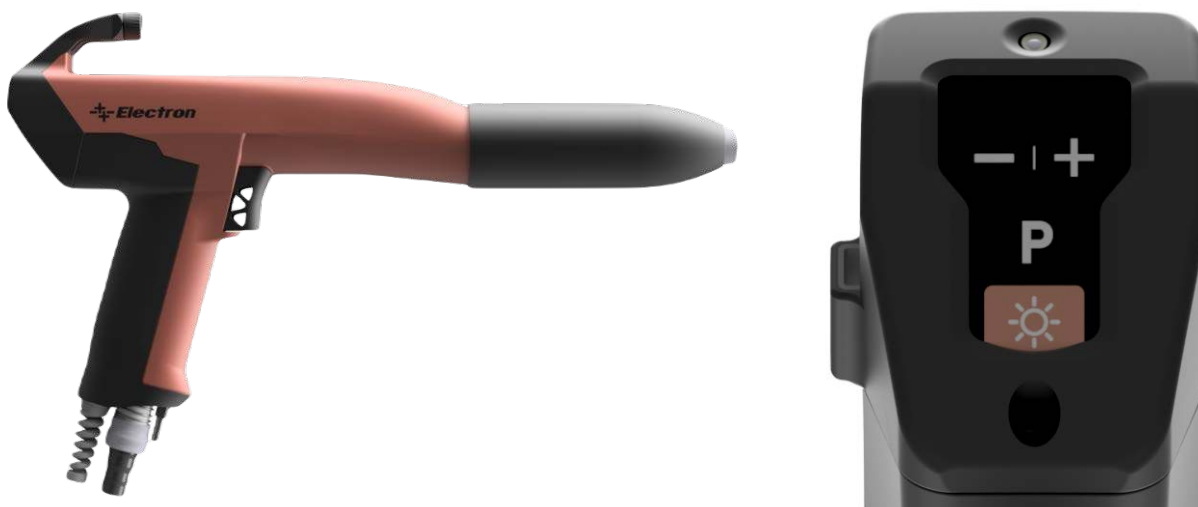
Install the filters by turning them and tighten fully. When the filters are installed, they should remain 12 mm away from the pump surface.

7- E-GUN+3 C1 General Information

Note: E-GUN+3 C1 Manual Powder Coating Gun includes a 7 mt powder transfer cable.

7.1. Field of Application

E-GUN+3 C1 Manual Powder Coating Gun is designed to use with the organic coating powder. Any other usage of the gun is non-conform. Electron is not responsible for the non-conform usage.



E-GUN+3 C1 Powder Coating Gun

Explosion Protection	Ingress Protection
   II 2 D	IP64

Note:

Explosion Protection of the E-GUN+3 C1 Powder Coating Gun is only valid if the gun is used with Electron E-COAT+3 Master P3 and Master P3 Control Units with proper connections done by the trained personnel. The control unit must be earthed with a resistance below 1 M Ohm. Unless the right zones are defined and the gun is setup without instructed, Electron is not responsible from any damage or potential damage.

Common User Mistakes

- Trying to coat without grounding the part
- Enamel Powder use
- Not calibrating the powder, supplementary and nozzle airs.
- Humid Powder use

Conformity between Products

Electron E-GUN+3 C1 manual electrostatic spray gun can be used with the products below:

- E-COAT+3 Master
- E-COAT+3 Master P3
- E-FEED V2 or E-FEED+3 INJ Injector
- E-FEED+3 AP3

7.2. Technical Data

Electrical Data

E-GUN+3 C1 Powder Coating Gun	
Input Voltage (Nominal)	20 Vp-p
Frequency	17 kHz (Average)
Output Voltage (Nominal)	120 kV
Polarity	Negative (Optionally Positive)
Output Current (Max.)	120 μ A
High Voltage Indicator	Gun back LED
Explosion Protection	EX 2mJ T6
Working Temperature	0 °C - +40 °C (32 °F - +104 °F)
Surface Temperature (Max.)	85 °C (+185 °F)
Ingress Protection	IP 64
Certification	  II 2 D

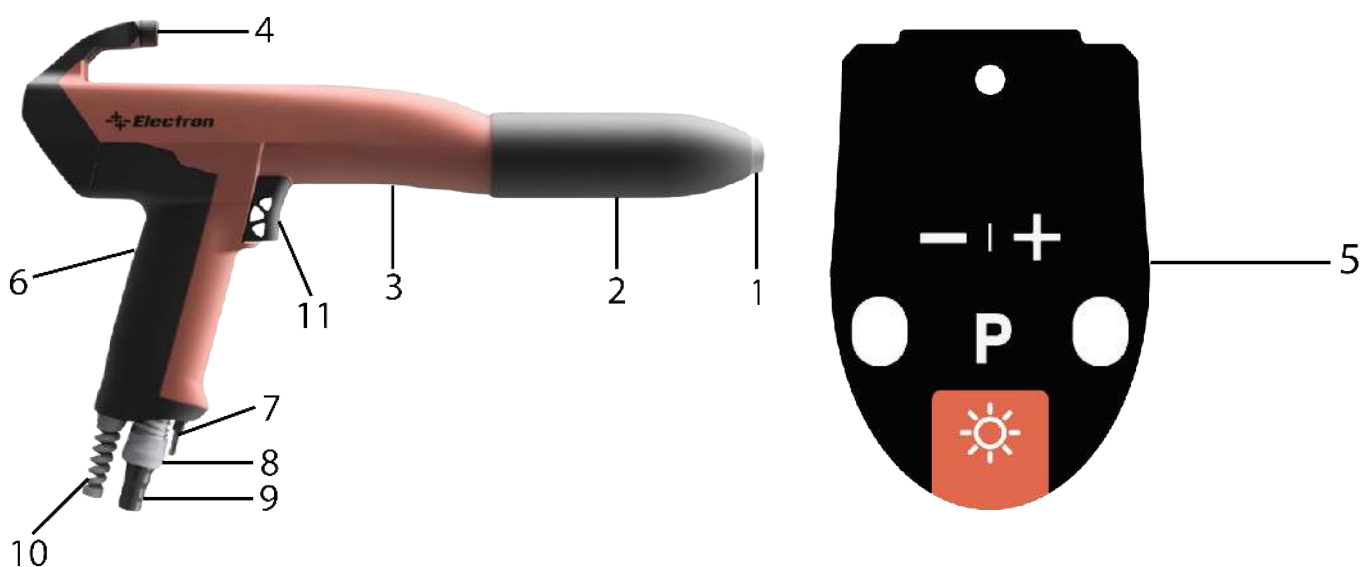
Weight

E-GUN+3 C1 Manual Powder Coating Gun	
Weight	495 g

Usable Powders

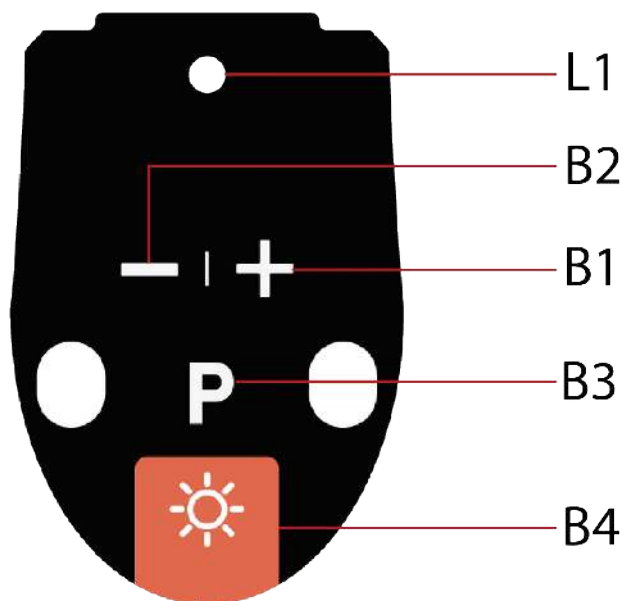
E-GUN+3 C1 Manual Powder Coating Gun	
Plastic Coating Powder	Conform
Metallic Coating Powder	Conform
Enamel Coating Powder	Non-Conform

7.3. Design and Functions



1. Nozzle Group
2. Nozzle Torque Nut
3. Gun Body (Anti-Static)
4. Hanger with Light(Conductive)
5. Back Control Button Group
6. Gun Grip (Conductive)

7. Nozzle Air Input Connection
8. Cable Connection Locking Ring
9. Powder Coating Cable Connection
10. Gun Cable
11. Trigger



Button	Function
L1	High Voltage Indicator (relevant to brightness)
B1	Selected Item Increment Button (If nothing is selected, Powder Increment Button)
B2	Selected Item Decrement Button (If nothing is selected, Powder Decrement Button)
B3	Segment Selection/Cleaning Mode Selection
B4	Gun Light Button

7.4. Lighting Function

The lighting function works in two options.

- 1- Depends on Trigger (11).
- 2- Depends on Interface Button (B4).

Depends on Trigger: In trigger-based operation, the light is on for the duration of the trigger, and turns off automatically after 10 seconds when the trigger stops. When the interface (light button) is pressed, the light blinks permanently. Thus, the trigger-dependent mode can be turned on/off.

Depends on Interface Button: When the light button on the back of the gun is pressed (inspection mode), the light turns on and turns off automatically after a while.

**Lighting Function****Light is On****Light is Off**

7.5. Optional Attachments

- FastCorona™ De-Ionizer Ring
- Nozzle Extensions Types
- Different Nozzle Types
- Gun Cable Extension

* For more information please check the Spare Parts Selection Guide.

7.6. Working Principle

7.6.1. High Voltage Generation

Electrostatic Powder Coating Control Unit sends at most 20 Vp-p valued 17 kHz electrical signal to the E-GUN+3's. This signal which travels through the gun cable to the gun reaches an item called "Cascade" which multiplies the voltage. This voltage multiplier system is made from two tiers one of which is the transformer (1). This transformer gets the signal up to a voltage and its then delivered to the second tier (2) where there is capacitor and diodes. The signal gets rectified and multiplied. This multiplied signal is delivered to the pre resistor which ensures the safety of the electricity level differences then to the output nozzle group. This high voltage is first loaded to the carbon ring then the tip of the nozzle and transferred to the powder paint while operating.



E-CASCADE+3

7.6.2. Flat Type Nozzle Structure

Flat Type Nozzle creates a hand fan shape on the powder while operating and also ensures that the powder is loaded as intended. The nozzle loads the high voltage from the output center to the powder. The high voltage electrode reaches to the tip of the nozzle from a white conical material. This conical isolator and the electrode has to stay clean at all times so the nozzle air should be arranged accordingly. Check the E-COAT+3 Master P3 manual for the preference setup.

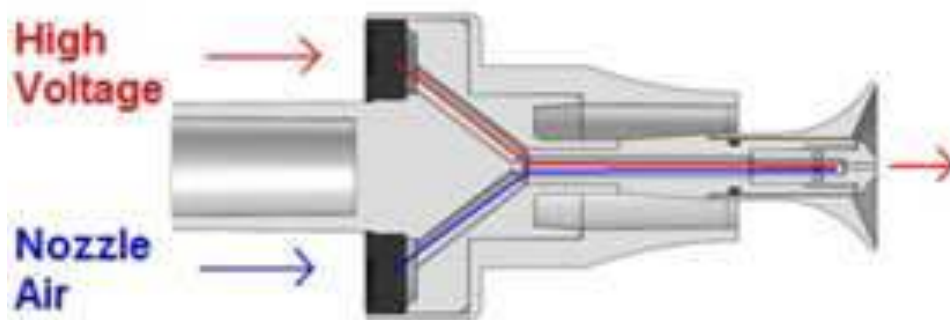


WARNING!

The corrugated surface of the carbon ring must face out. If it is inserted opposite, the gun can be damaged.

7.6.3. Deflector Type Nozzle Structure

Deflector type nozzle creates a cloud like pattern as the powder paint comes out from the gun. The nozzle loads the powder with high voltage. High voltage electrode travels through a cylindrical white material to the tip of the nozzle. This isolator and the electrode should stay clean at all times so the nozzle air has to be set accordingly. Check the E-COAT+3 Master P3 Control Unit guide for the calibration instructions.



7.6.4. Fast Corona Ring

The Fast Corona Ring is an optional extension for the gun, allowing for a better surface quality when coating with the powder coating equipment.

The performance of the gun with Fast Corona Ring is convincing due to its very good charging and very high deposition rate as well as an improved penetration into Faraday cages. The distance between nozzle and workpiece can be reduced to 100 mm without influencing the surface finish. In this way, the orange peel effect is minimized in cases where more delicate powder coating needs to be performed.

Before fitting the Fast Corona ring, make sure that the connection and the plug-in connector are free from grease and powder, otherwise the electric contact cannot be guaranteed.



E-GUN+3 C1/C2 Fast Corona Ring Assembly

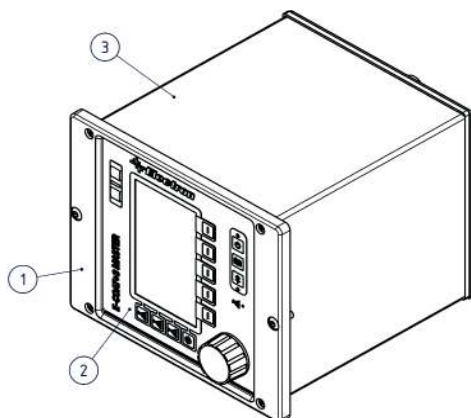


E-GUN+3 C3 Fast Corona Ring Assembly

8. Parts and Accessories



Product #	Product Name	Order Code
1	E-COAT+3 Master P3-B Manual Bare Kit (1 PUMP)	A06ECM01P2B+3
2	E-COAT+3 Master P3-A Automatic Bare Kit (1 PUMP)	A06ECA02PA+3
3	E-COAT+3 Master P3-H (1 PUMP)	A06ECM01P2H+3
4	E-COAT+3 Master P3-H Dual (2 PUMP)	A06ECM01P2HD+3
5	E-COAT+3 Master P3-M (1 PUMP)	A06ECM01P2M+3
6	E-COAT+3 Master P3-M Dual (2 PUMP)	A06ECM01P2MD+3



Control Unit Type	Order Code
E-COAT+3 MASTER CONTROL UNIT	B07ECMU01+3

Part No	Part Name	Order Code	Qty
1	E-COAT+3 DEVICE CASE FRAME	B07EC5108	1
2	E-COAT+3 MASTER FRONT MEMBRANE SET	B07EC3001	1
3	E-COAT+3 CONTROL UNIT CASE	B07EC5101	1



Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
B07POWER01	E-COAT MANUAL DEVICES POWER CABLE (3m)	N/A	✓
B07POWER02	E-COAT AUTOMATIC DEVICES POWER CABLE (4 m)	N/A	✓
B07140513	E-COAT ETHERNET SOCKET MODULE WITH PATCH CABLE	N/A	N/A
B07POWER01-A110V	E-COAT MANUAL POWDER COATING MACHINE POWER CABLE (A110V)	N/A	N/A



Note: For E-Coat+3 dual products these cables are used.

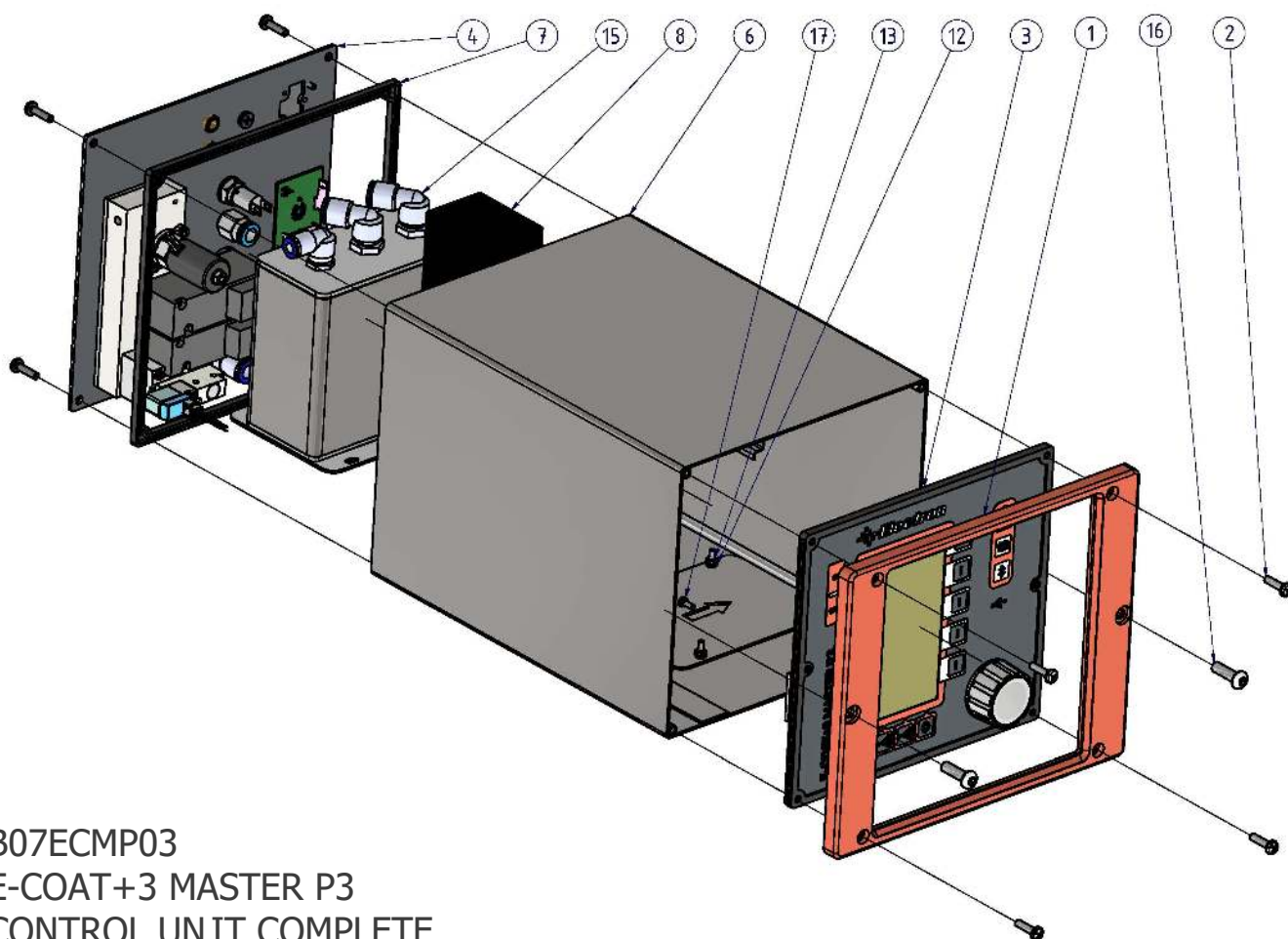
Part No	Part Name	Order Code	Qty
1A	E-COAT+3 DEVICE TROLLEY DUAL TYPE CABLE GROUP (220V)	B07ECCA014	1
1B	E-COAT+3 DEVICE TROLLEY DUAL TYPE CABLE GROUP (A-110V)	B07ECCA015	1



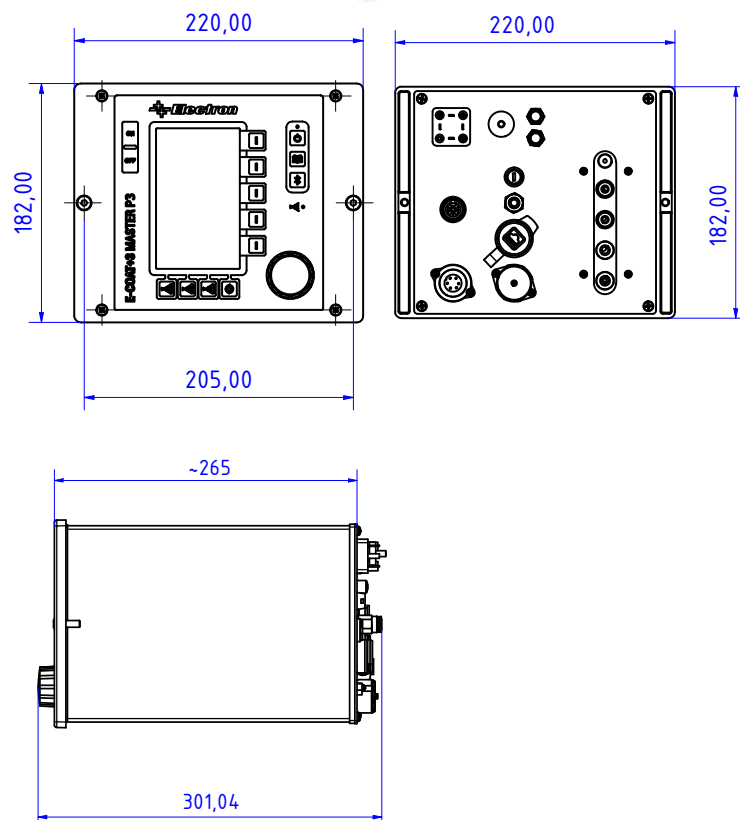
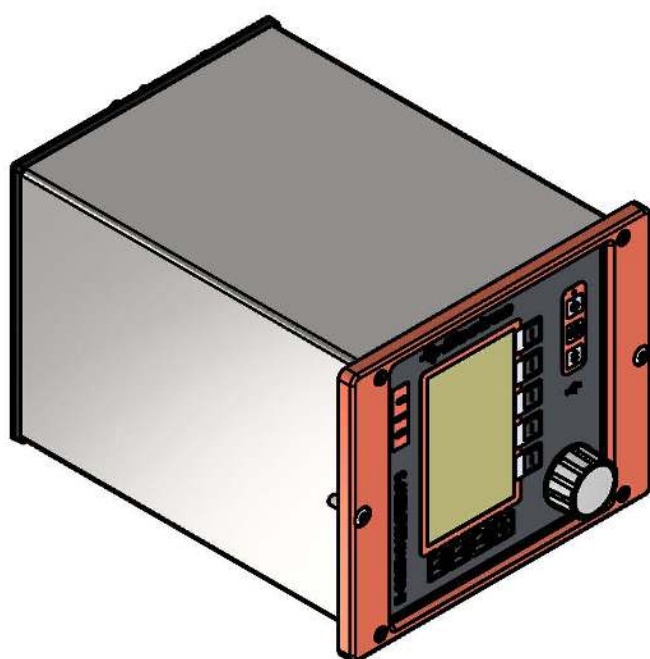
After the socket is installed, the screw must be tightened. The fastening torque is 0.5-0.6 Nm.



WARNING - EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED.

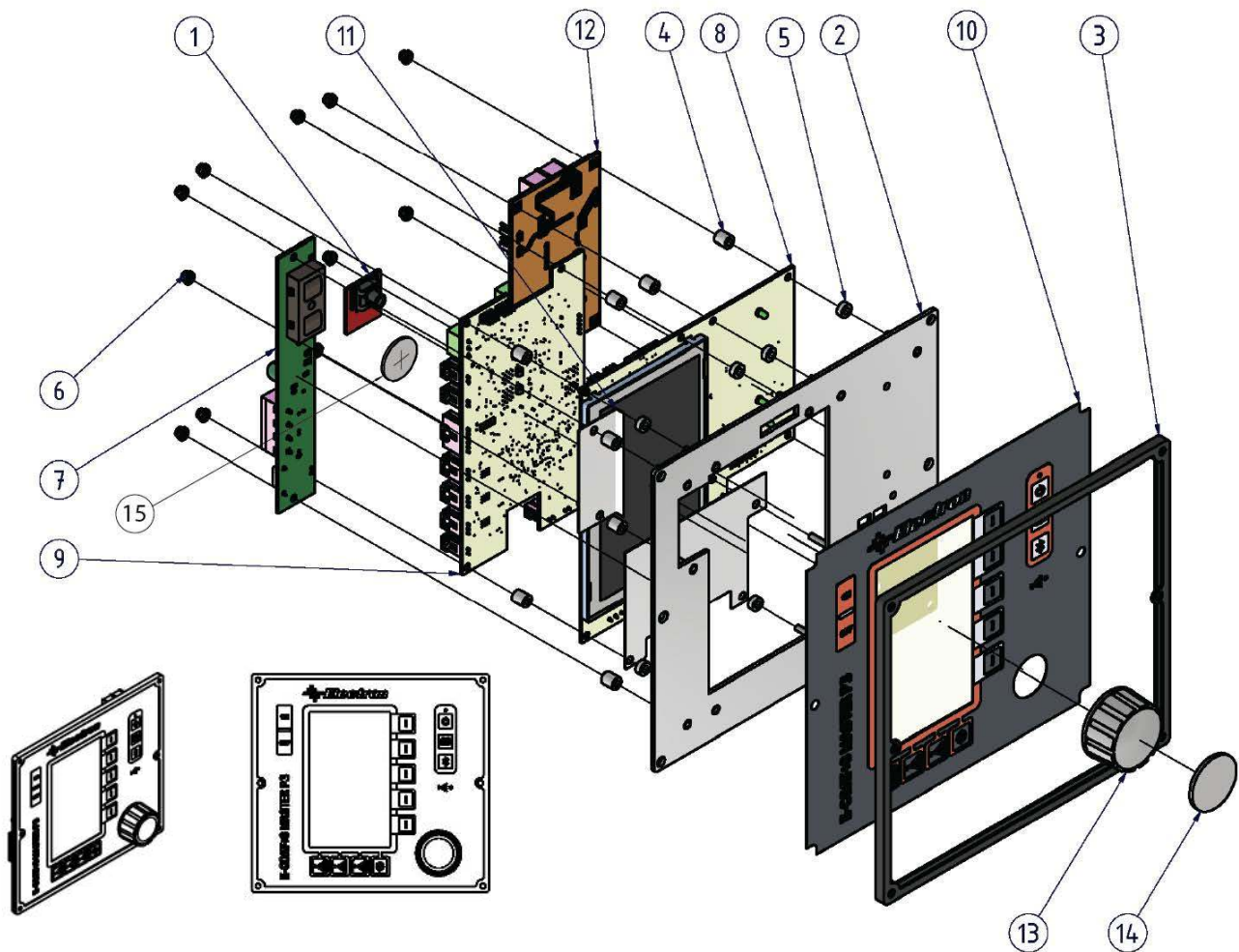


B07ECMP03
E-COAT+3 MASTER P3
CONTROL UNIT COMPLETE

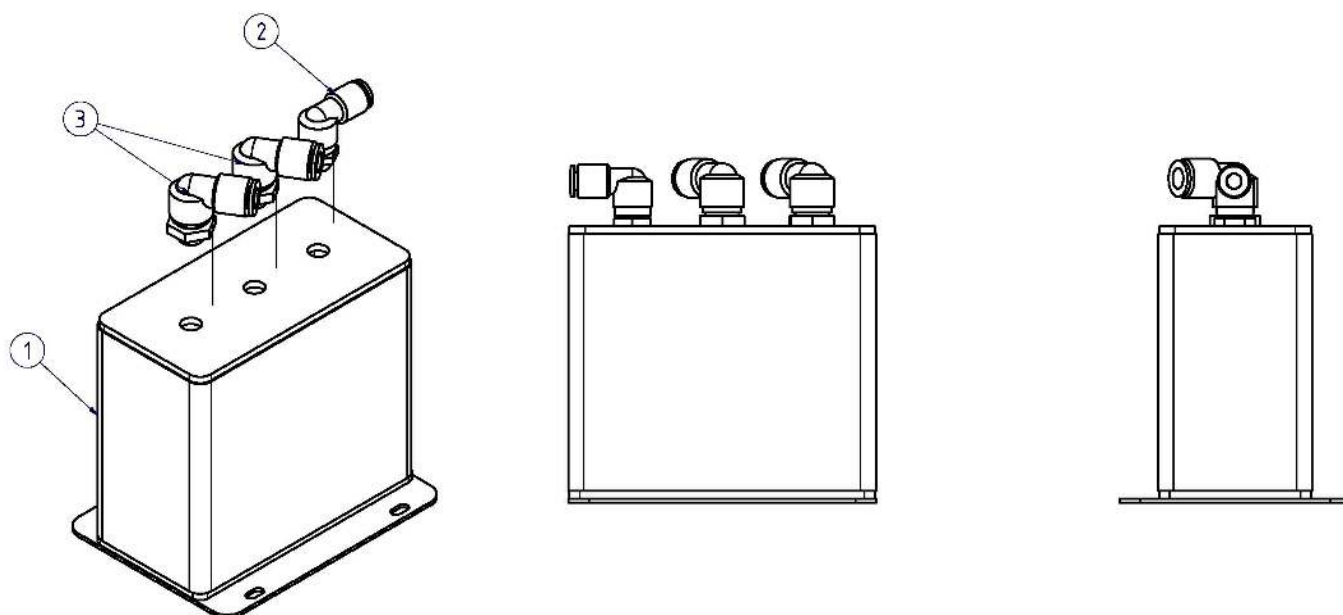


Note: All dimensions are in "mm".

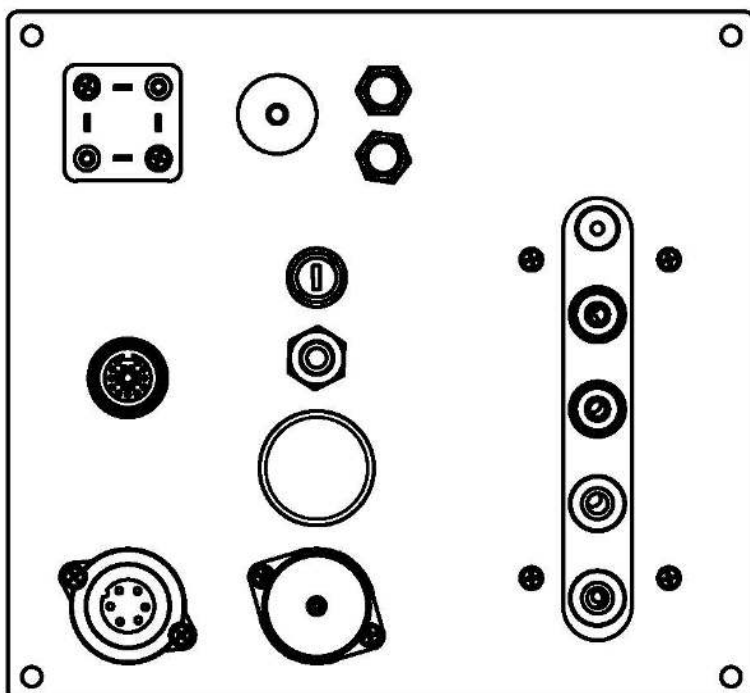
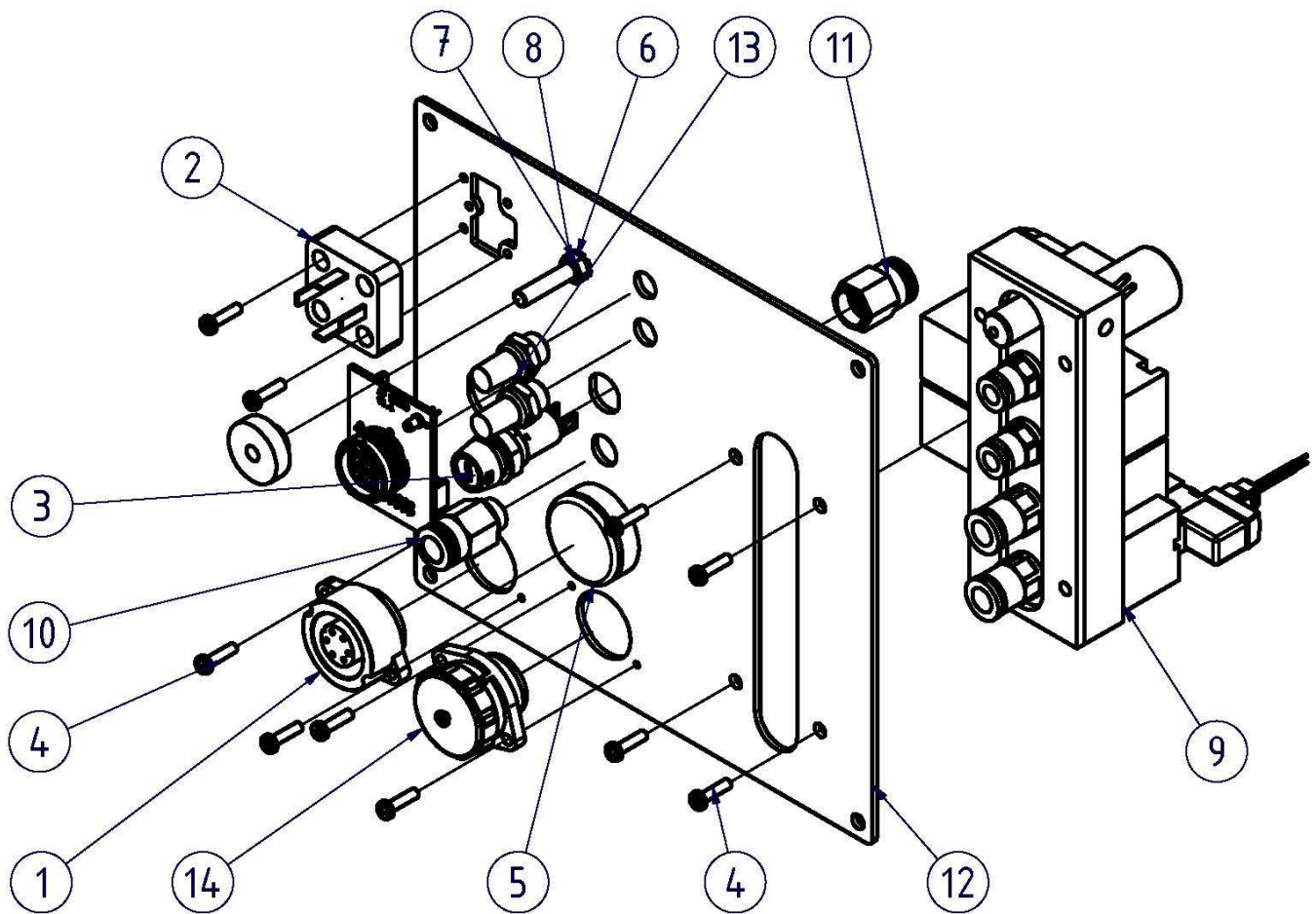
Part No	Order Code	Part Name
1	B07EC5108	E-COAT+3 DEVICE ENCLOSURE FRAME
2	BECV01009	SCREW M4X15 YSB
3	* (GROUP)	FRONT GROUP WITH MEMBRANE MAIN ASSEMBLY MASTER P3
4	* (GROUP)	E-COAT+3 MASTER P3 REAR SHEET METAL WITH MOUNTING
6	B07ECMP21	E-COAT+3 MASTER P DEVICE ENCLOSURE
7	IZCS01017	GASKET E-COAT+3 DEVICE BOX REAR
8	ELON10022	SMPS EPS65-24V 65W DIN RAIL TYPE
11	ELON05003	EMI LINE FILTER - 3A DELTA 03DBAG5 1P 115V/250VAC
12	BEPL03001	DIN 125 - A 3,2 Washer
13	BESM02009	NUT WITH NYLON INSERT M3
15	* (GROUP)	E-COAT+3 MASTER P AIR TANK GROUP
16	BECV03029	BOLT M6X20 ROUND HEAD BECV03029 DEVICE FRAME
17	BECV01001	SCREW M3X8 PHILIPS CYLINDRICAL HEAD



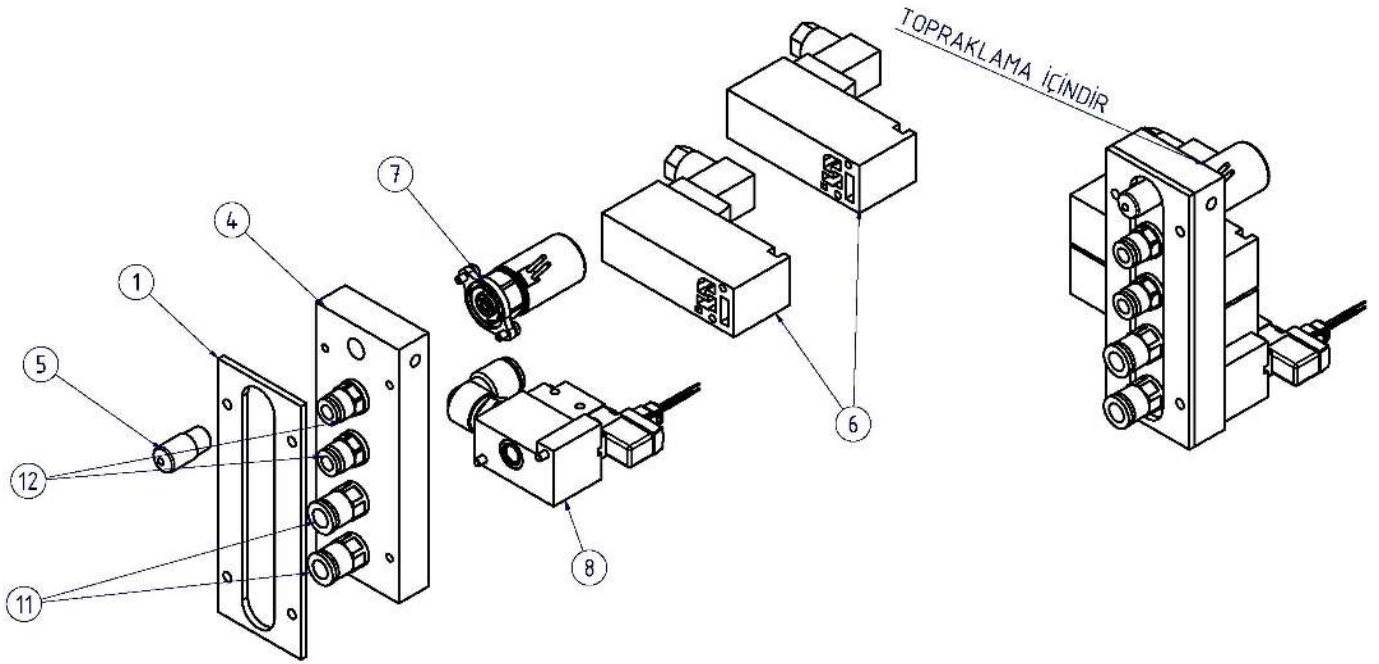
Part No	Order Code	Part Name
1	B07500031	E-COAT+3 ROTARY BOARD COMPLETE
2	B07EC5103	E-COAT+3 MASTER FRONT ALUMINUM SHEET
3	IZCS01016	GASKET E-COAT+3 DEVICE BOX FRONT
4	ELDE05009	SPACER PLASTIC 7 MM
5	ELDE05003	SPACER PLASTIC 3 MM
6	BESM02009	NUT WITH NYLON INSERT M3
7	ELON09030	E-COAT+3 MASTER POWER BOARD
8	B07500034	E-COAT+3 MASTER P3 DISPLAY BOARD (PROGRAMMED)
9	B07500033	E-COAT+3 MASTER P3 MAIN BOARD (PROGRAMMED)
10	ETKT04020	E-COAT+3 MASTER P3 FRONT MEMBRANE
11	ETKT03078	INSULATION PLATE E-COAT+3 MASTER (LEXAN) -SET
12	B07500032	E-COAT+3 MASTER P3 I/O BOARD (PROGRAMMED)
13	ELON12003	KNOB INCREMENTAL ROTARY
14	ELON12004	KNOB ROTARY CAP
15	ELDE03002	BATTERY CR2032



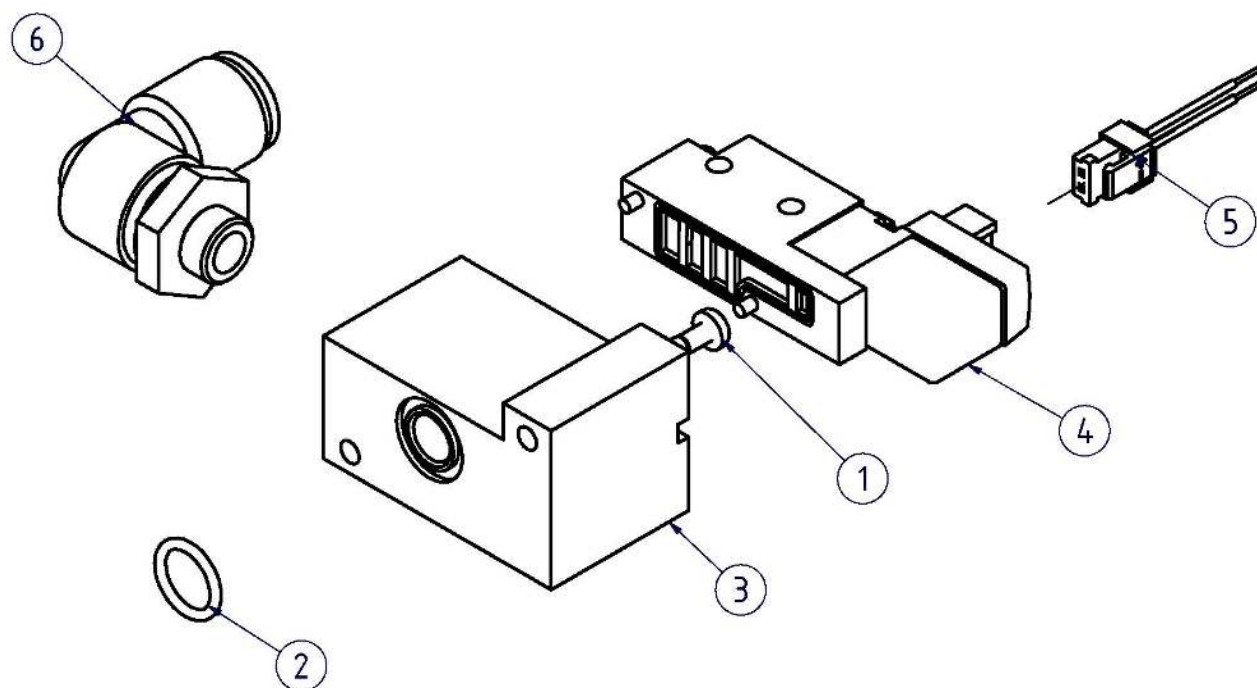
Part No	Order Code	Part Name
1	B07ECMP12	E-COAT MASTER P AIR TANK METAL COMPONENTS
2	PNRD01037	ELBOW MALE 1/8 - Ø6
3	PNRD01039	ELBOW SWIVEL CONNECTOR 1/8'-Ø8 MALE



Part No	Order Code	Part Name
1	ELKS03003	SOCKET BINDER RD24 SOLDER TYPE 7 PIN FEMALE PANEL CONNECTOR
2	ELKS10004	SOCKET VALVE
3	ELDE06006	FUSE HOLDER GLASS IP67 5X20A
4	BECV01002	SCREW M3X10
5	ELKS09002	RJ 45 ETHERNET PANEL
6	BECV02010	SCREW YELLOW M5X30
7	BESM01004	NUT M5
8	BEPL04008	M5 KNURLED WASHER
9	* (GROUP)	E-COAT+3 MASTER P REGULATOR MANIFOLD (SPECIAL MANIFOLD)
10	PNRD01043	CONNECTOR STRAIGHT 1/8"-Ø8 MALE BLACK
11	PNRD01027	CONNECTOR 1/8" - Ø8 FEMALE STRAIGHT
12	B07EC5109M	E-COAT+3 MASTER P3 REAR SHEET METAL COMPONENTS
13	PNDP01014	SILENCER FILTER SINTERED BRONZE B TYPE 18 1 MICRON
14	ELKS03016	CONNECTOR TWO HOLE FLANGE TYPE 5 PIN FEMALE PANEL IP68
15	TRTM05017	NUT GROUNDING (M5X20)
16	ELON09037	E-COAT+3 MASTER P3 SOCKET BOARD



Part No	Order Code	Part Name
1	IZCS01003	PROPORTIONAL VALVE PLATE GASKET EPDM 3X45X119 MM
4	TRTM04137	PNEUMATIC VALVE MANIFOLD V2 (FOR PVQ VALVE)
5	PNDP01001	SILENCER AN10-01 1/8" SINTERED
6	PNPE04013	VALVE PROPORTIONAL 0-10 V CONTROL / 24 V DC SUPPLY)
7	PNPE04063	VALVE PROPORTIONAL
11	PNRD01011	CONNECTOR 1/8" - Ø8 PNEUMATIC MALE STRAIGHT ORANGE
12	PNRD01010	CONNECTOR 1/8" - Ø6 PNEUMATIC MALE STRAIGHT ORANGE



Part No	Order Code	Part Name
1	BECV01004	SCREW M3X30
2	IZOR01017	O-RING Ø9X1.5
3	TRTM04063	VALVE MANIFOLD TANK FEED 26X26X43
4	PNPE04012	VALVE 3/2 SPECIAL
5	B07ECK518	SOCKET
6	PNRD01039	ELBOW SWIVEL CONNECTOR 1/8"-Ø8 MALE

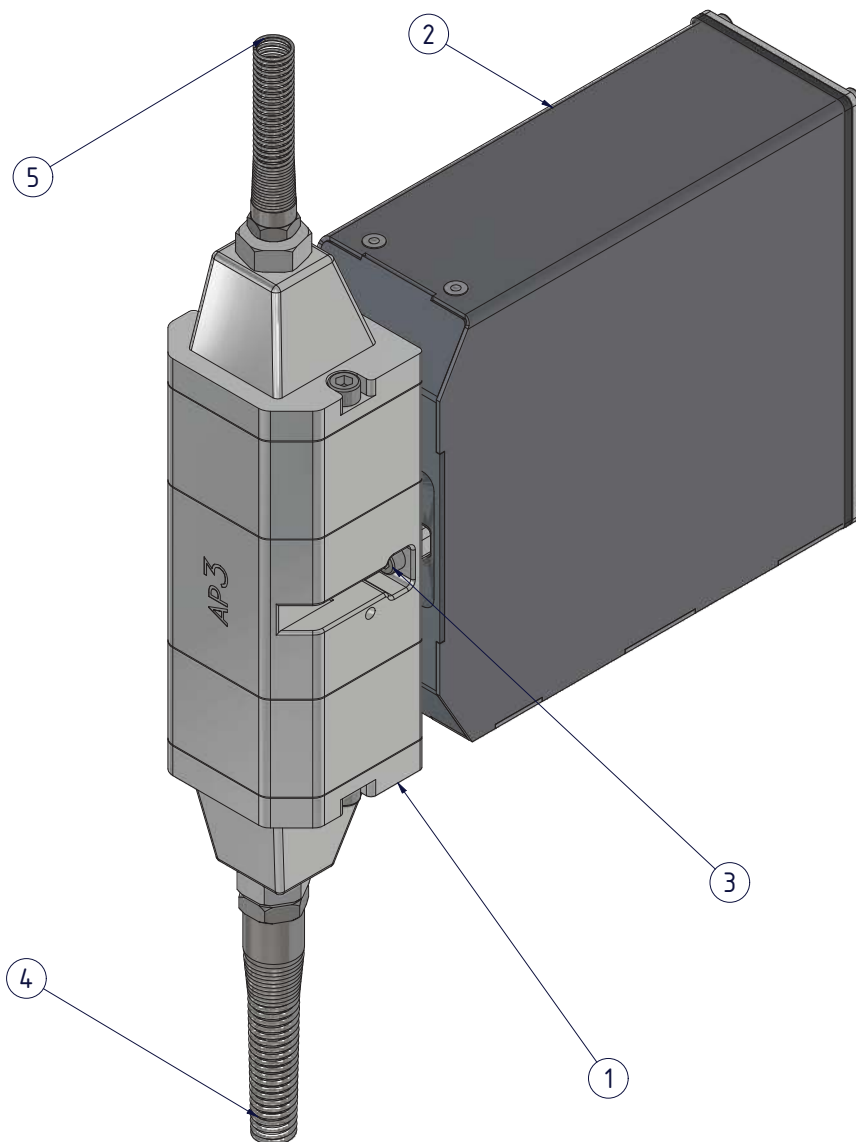


Part No	Order Code	Part Name
1	B07EC5110	E-COAT+3 MASTER (P3) MAGNETIC DEVICE PROTECTOR (TRANSPARENT)

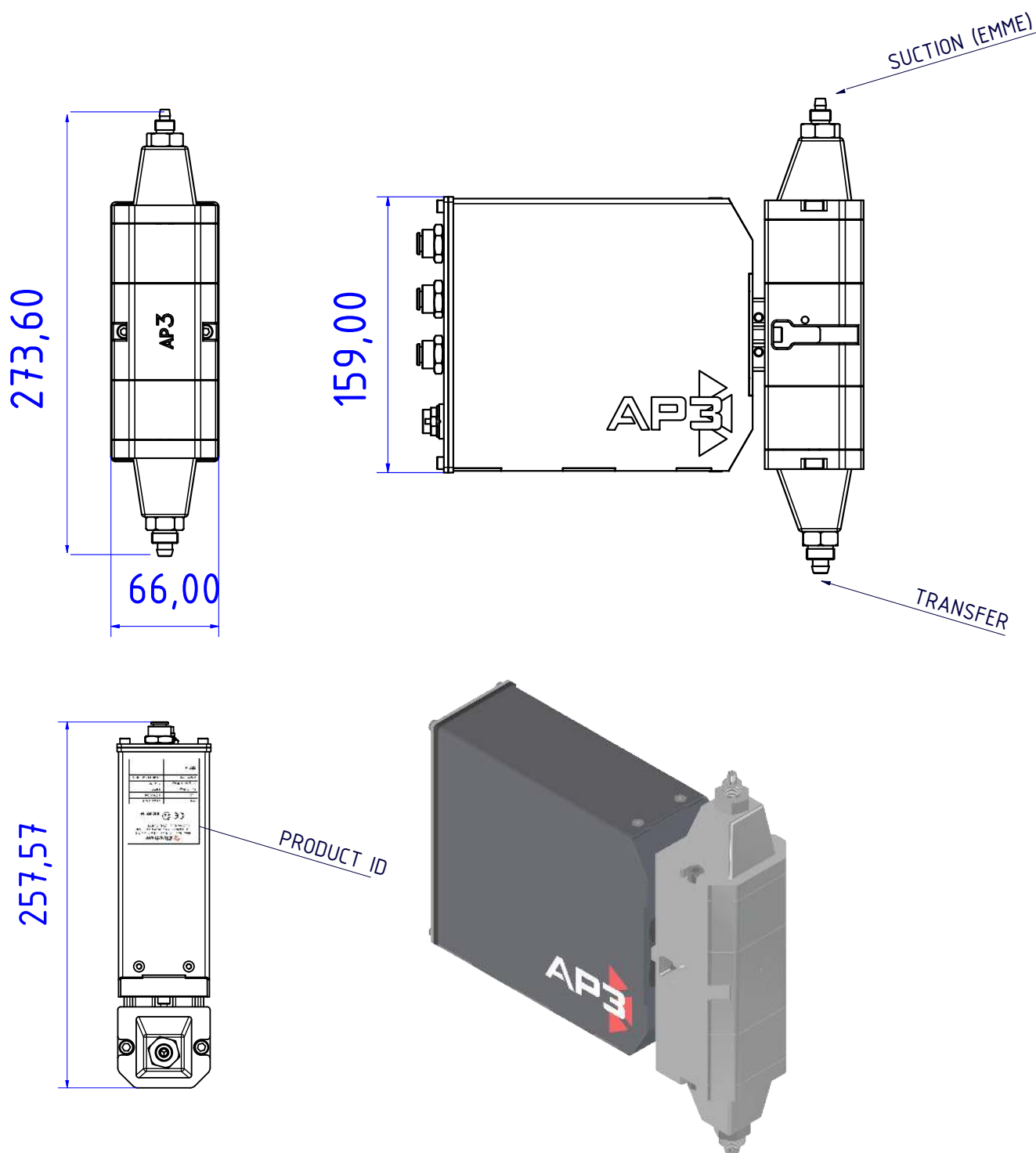
Note: The Magnetic Device Protector is sold separately and is not included in the default set.

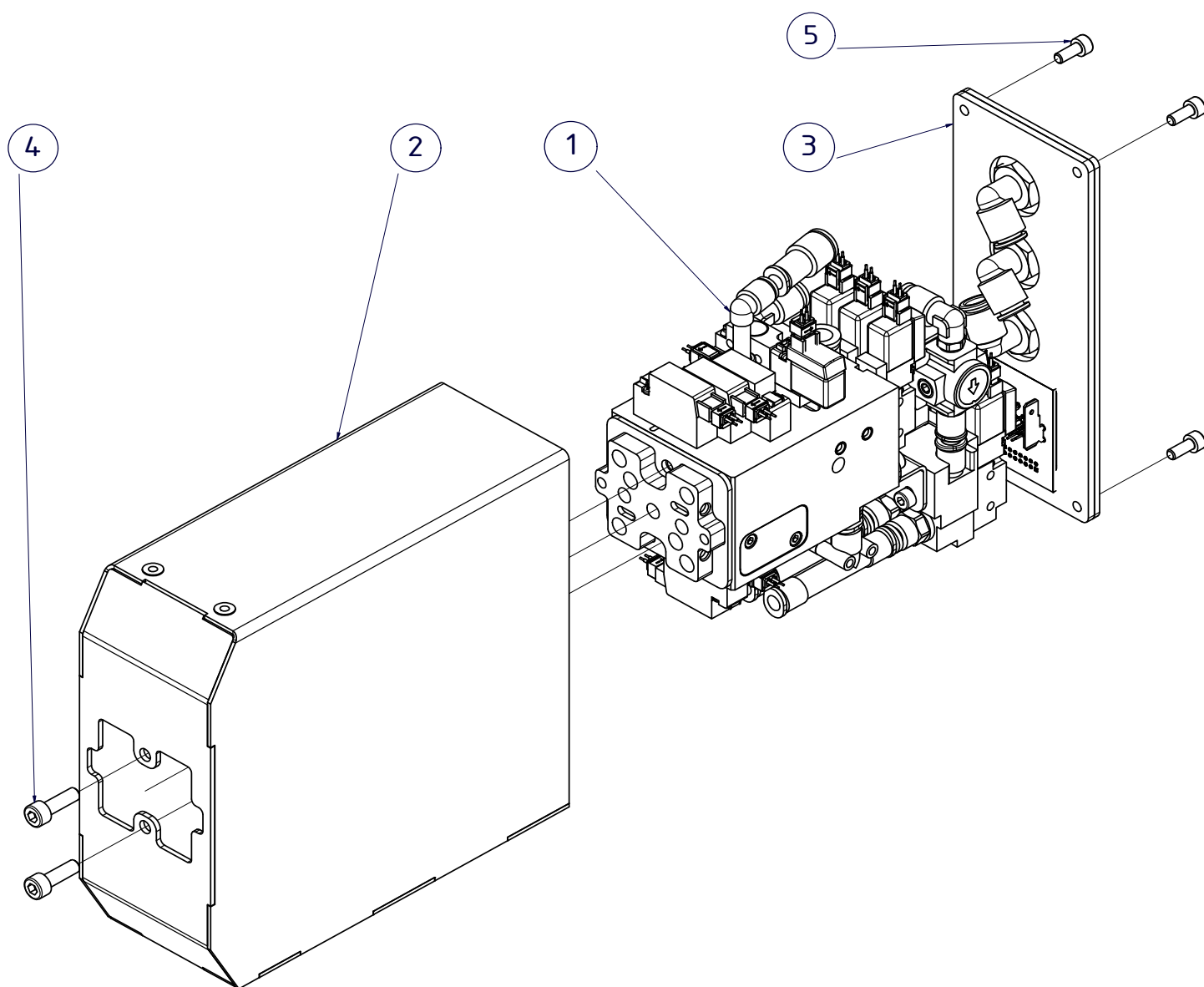
B07FAP3001

E-Feed +3 AP3 POWDER COATING APPLICATION
PUMP



Part No	Order Code	Part Name
1	B07FAP3002	E-FEED +3 AP3 POWDER TRANSFER UNIT (COMPLETE)
2	B07FAP3003	E-FEED +3 AP3 ELECTRO PNEUMATIC CONTROL UNIT (COMPLETE)
3	BECV03039	BOLT M5x20
4	PNBE01015	COATED NUT /w SPRING (T019YU 09x12) M16x1
5	PNBE01014	COATED NUT /w SPRING (6x8) T021

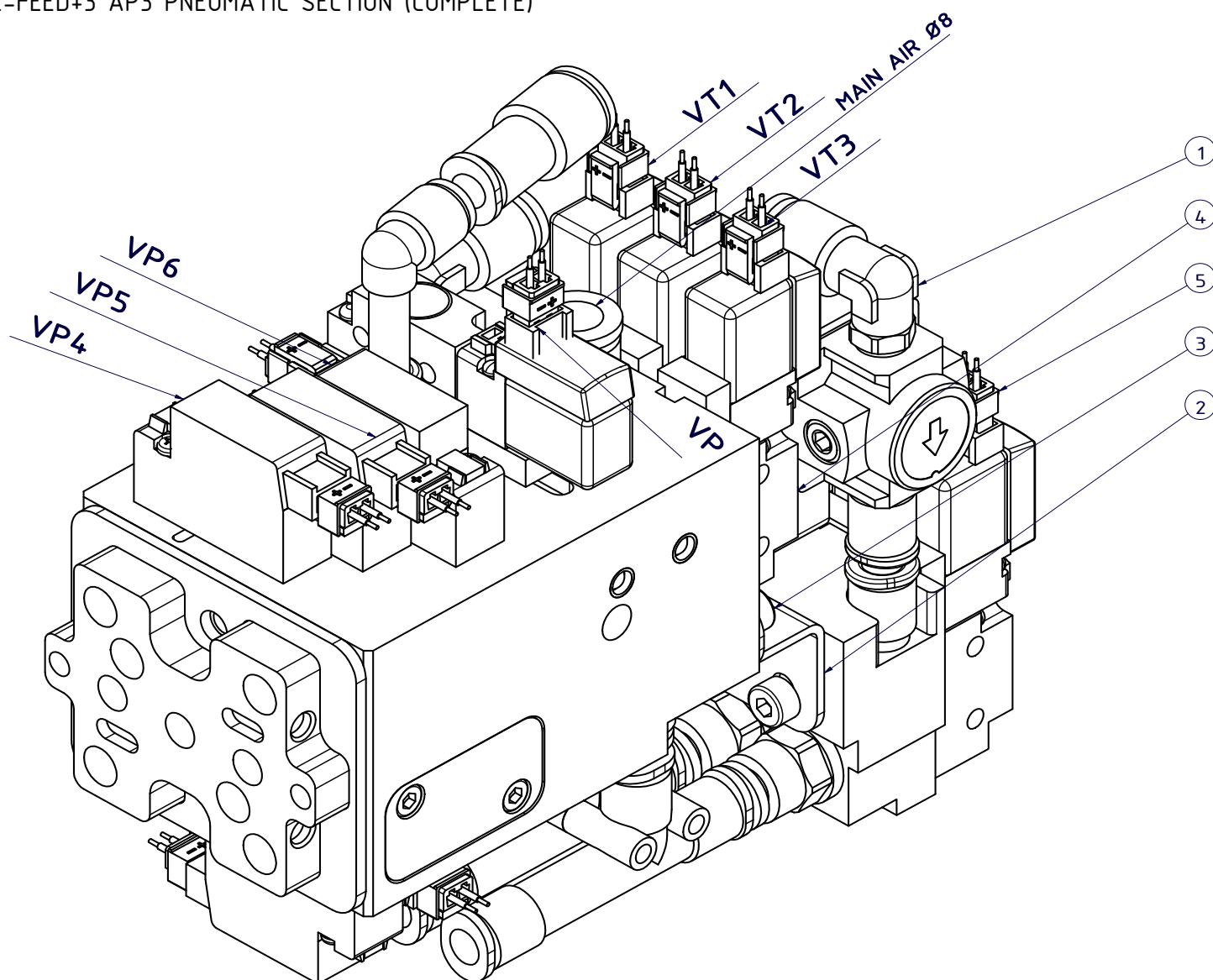


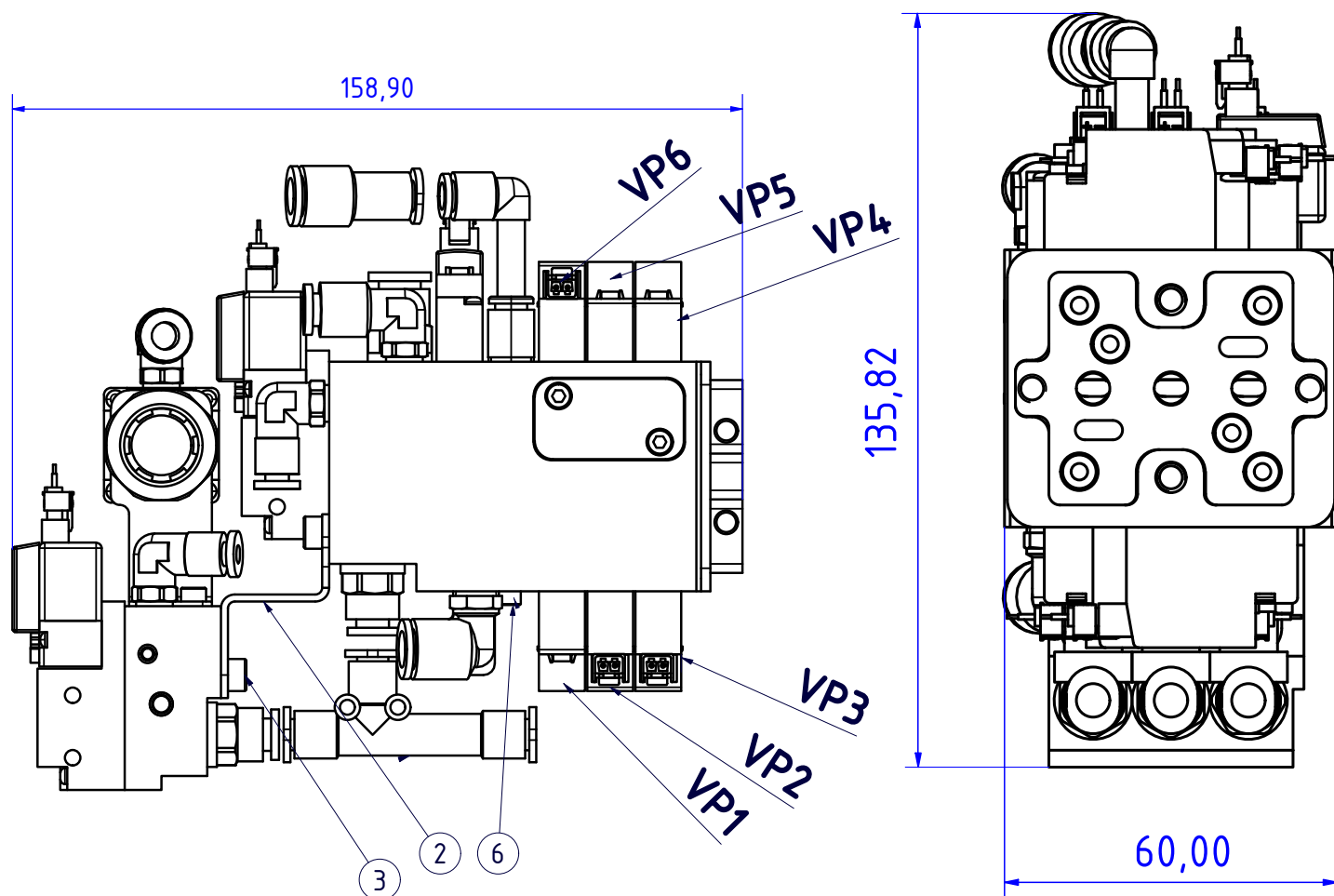


Part No	Order Code	Part Name
1	B07FAP3-PN03	E-FEED+3 AP3 PNEUMATIC SECTION(COMPLETE)
2	B07FAP3-ME03	E-FEED +3 AP3 SHEET METAL ENCLOSURE(COMPLETE)
3	B07FAP3-ME04	E-FEED +3 AP3 BACK COVER (COMPLETE)
4	BECV03024	BOLT M5x15
5	BECV03021	BOLT M4x10

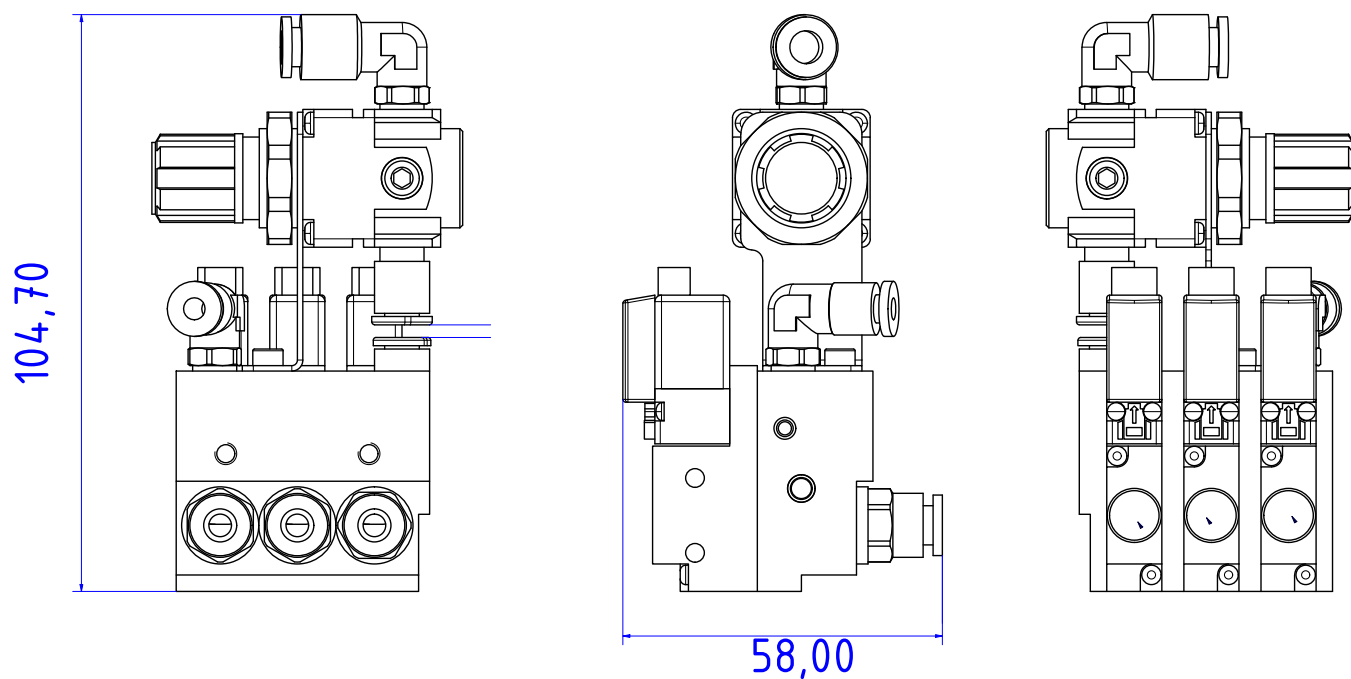
B07FAP3-PN03

E-FEED+3 AP3 PNEUMATIC SECTION (COMPLETE)

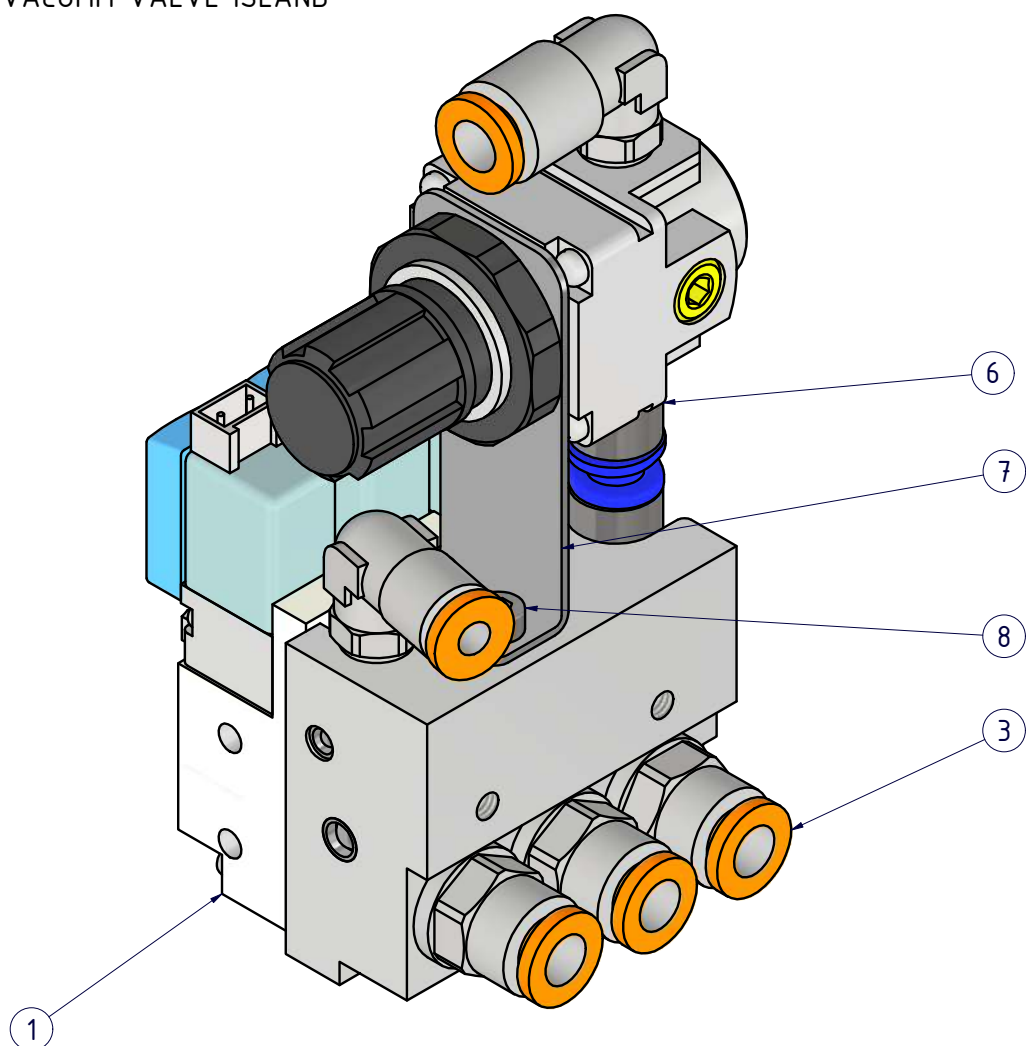


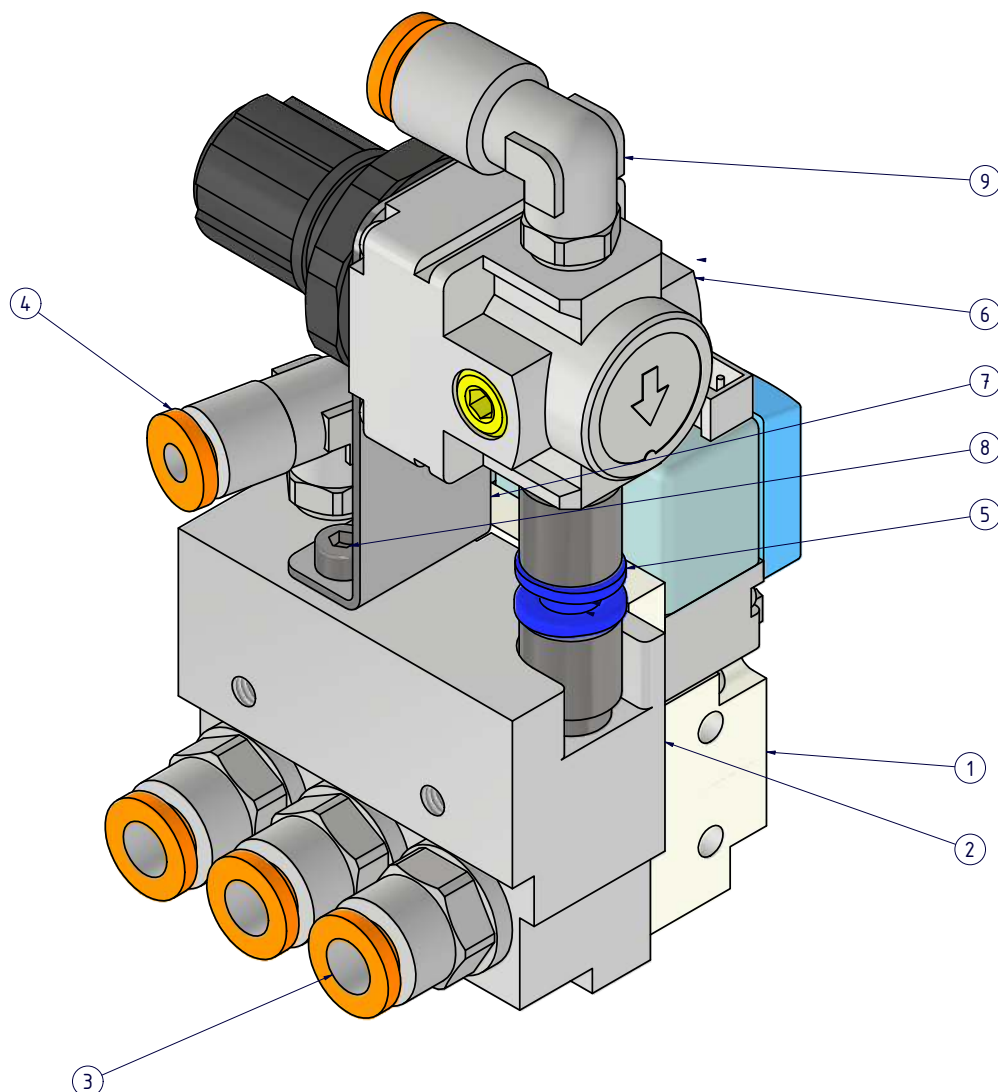


Part No	Order Code	Part Name
1	B07FAP3-PN01	E-FEED +3 AP3 VACUUM VALVE MANIFOLD SECTION - COMPLETE
2	B06CE04011	SHEET METAL E-FEED +3 AP3 MANIFOLD CONNECTION
3	BECV03021	BOLT M4x10
4	B07FAP3-PN02	E-FEED+3 AP3 MAIN VALVE ISLAND
5	ELKS10005	SOCKET
6	BECV03017	BOLT M3x10



B07FAP3-PN01
E-FEED+3 AP3 VACUUM VALVE ISLAND

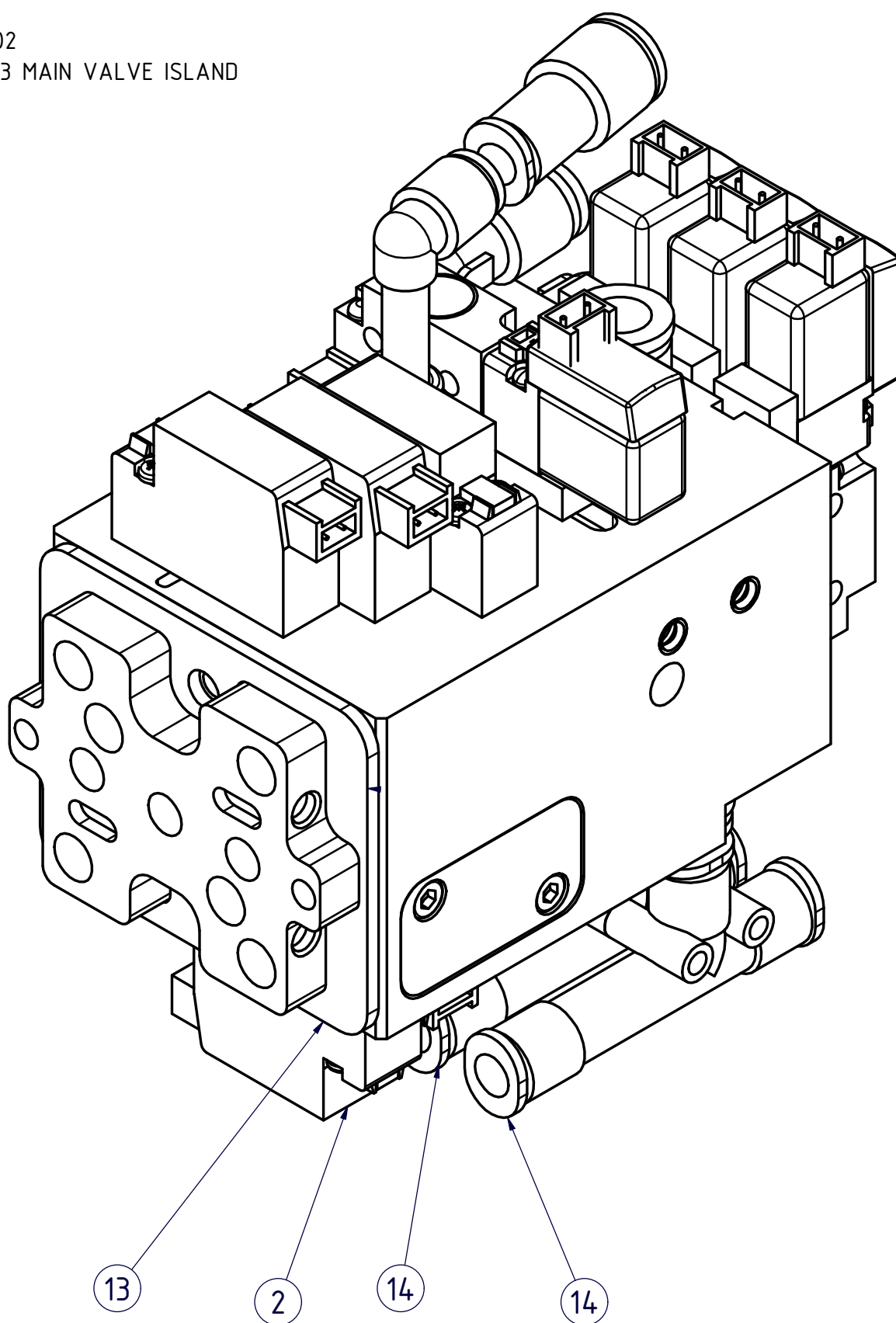


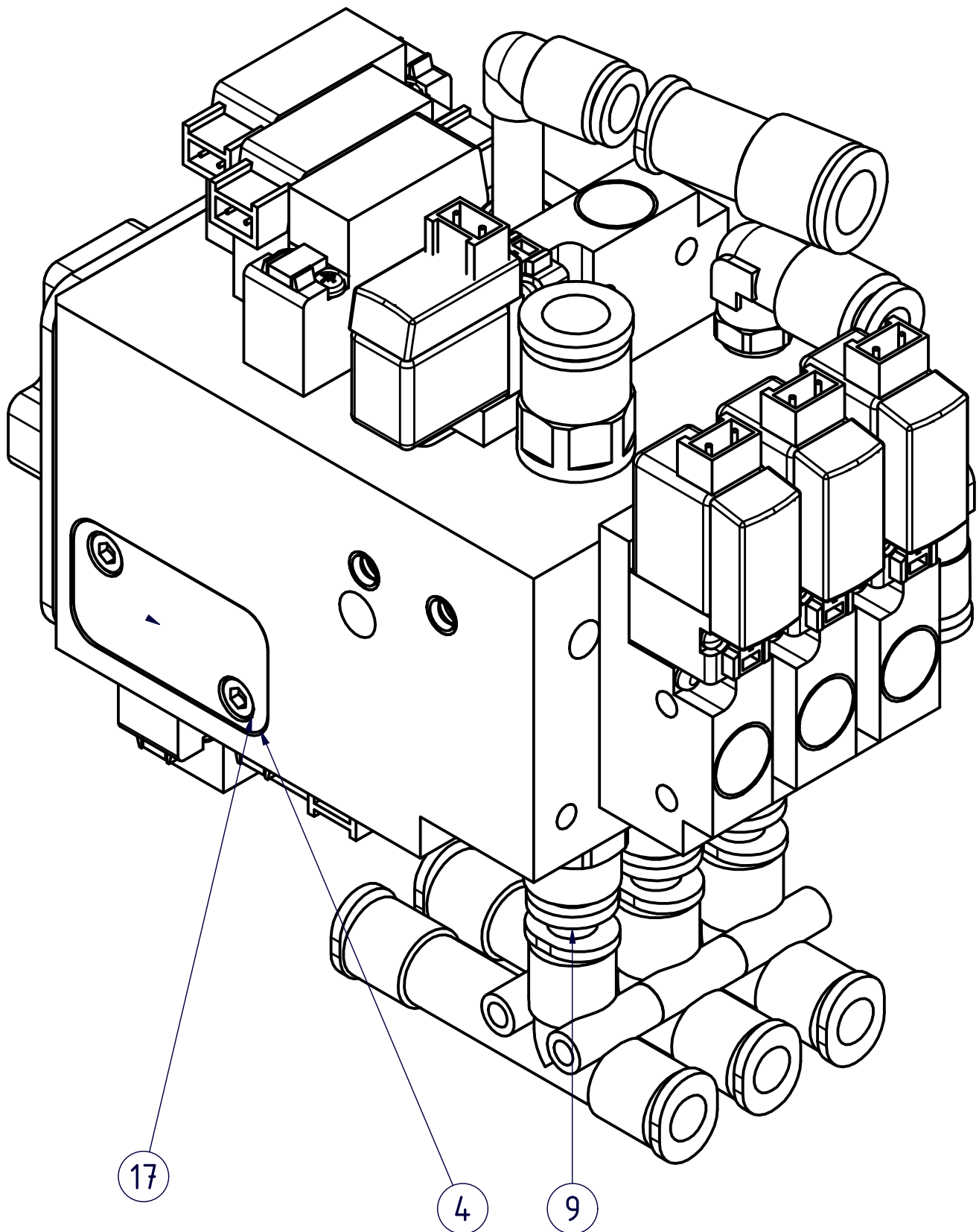


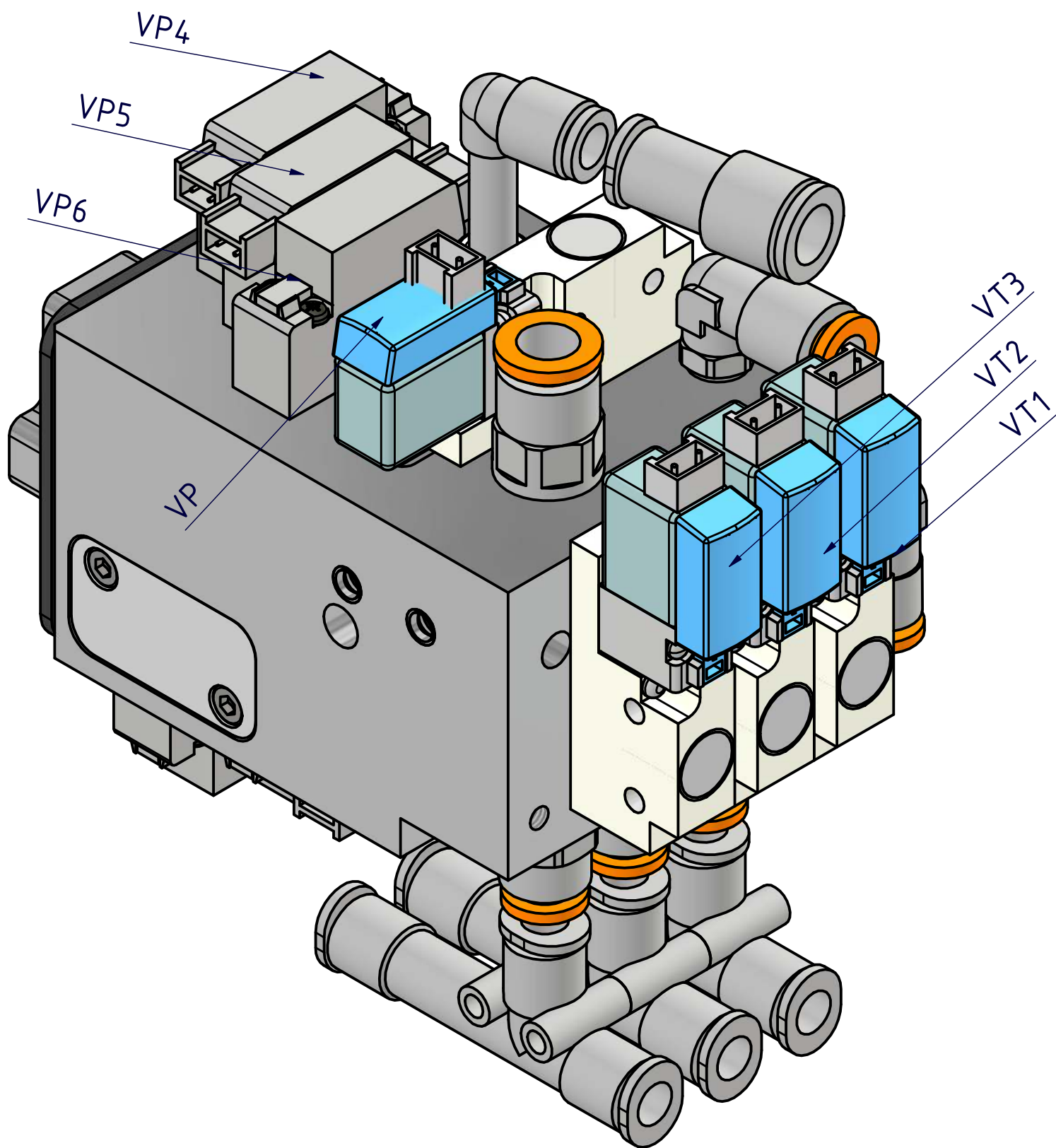
Part No	Order Code	Part Name
1	PNPE04103	VALVE
2	B07TRTM04221	AP3 VACUUM VALVE ISLAND (SEALING PLUG)
3	PNRD01010	FITTING 1/8" - Ø6 PNEUMATIC MALE STRAIGHT ORANGE
4	PNRD01058	FITTING M5 - Ø4 PNEUMATIC MALE ELBOW ORANGE
5	PNRD01056	MALE STRAIGHT FITTING PNEUMATIC Ø6-M5 INTERNAL CLAMPING
6	PNPE01006	REGULATOR
7	B06CE04010	SHEET METAL E-FEED +3 AP3 REGULATOR MOUNTING
8	BECV03016	BOLT M3x6
9	PNRD01059	CONNECTOR M5 - Ø6 PNEUMATIC MALE ELBOW ORANGE

B07FAP3-PN02

E-FEED+3 AP3 MAIN VALVE ISLAND

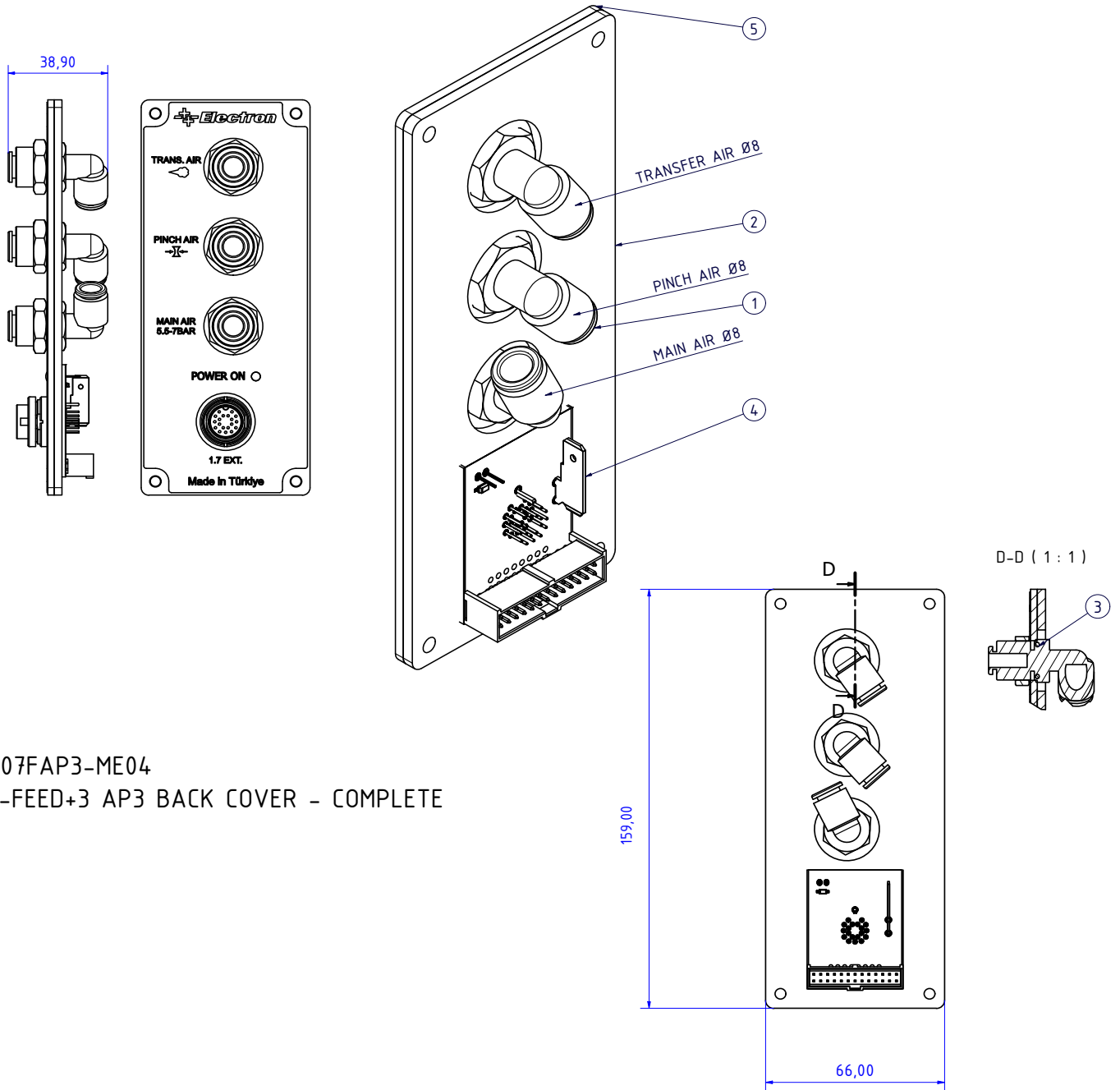






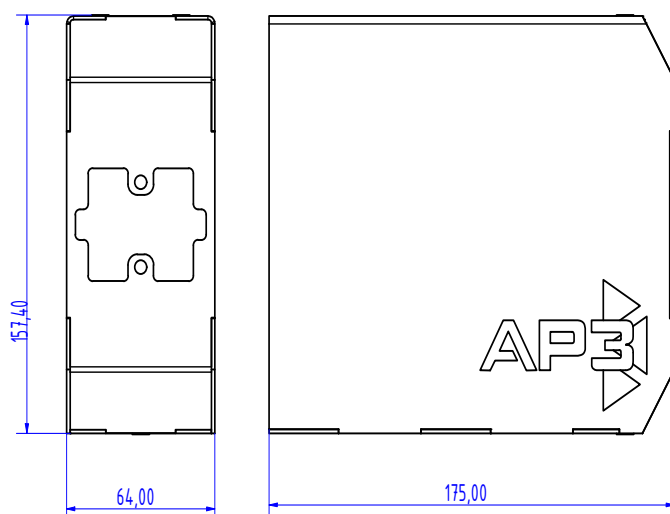
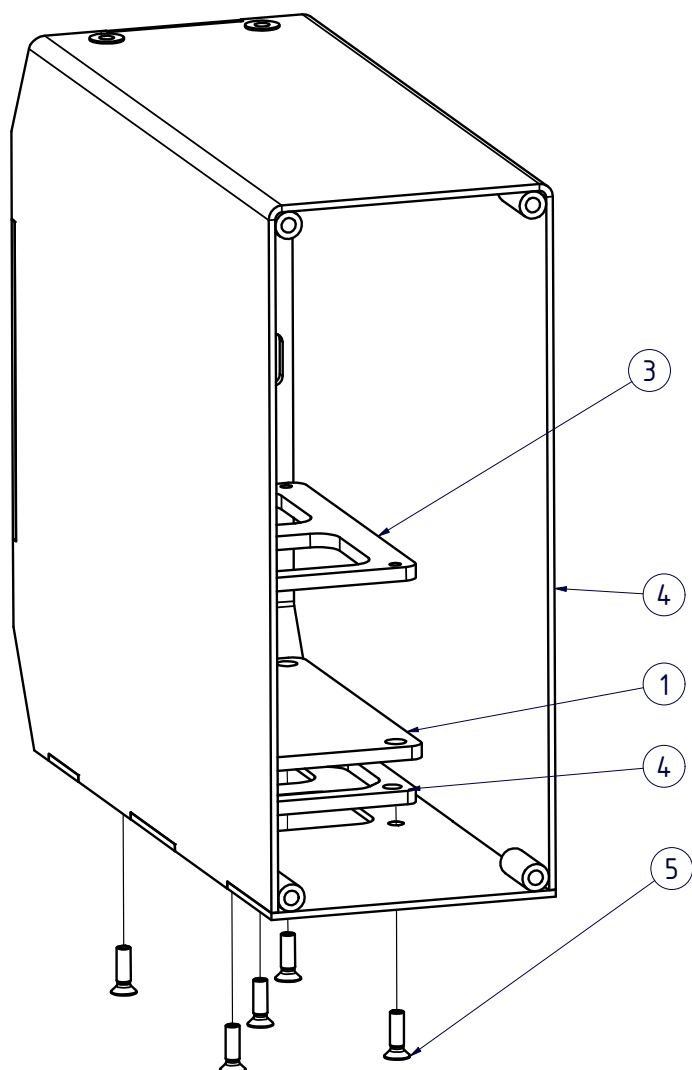


Part No	Order Code	Part Name
1	PNPE04103	VALVE
2	PNPE04104	VALVE 3/2 LARGE FLOW
3	PNPE04012	VALVE
4	TRTM04220	AP3 VALVE MANIFOLD BLIND PLUG
5	PNRD01001	CONNECTOR SMC 1/8-Ø6 INTERNAL CLAMP TYPE
6	IZOR01007	O-RING SPECIAL INTERMEDIATE PLATE AP3
7	PNRD01054	ELBOW SWIVEL CONNECTOR TAPERED THREAD 1/8"-Ø8 MALE
8	B07TRTM04216	AP3 VALVE MANIFOLD (SEALING PLUG)
9	PNRD01010	CONNECTOR 1/8" - Ø6 PNEUMATIC MALE ELBOW ORANGE
10	PNRD01011	CONNECTOR 1/8" - Ø8 PNEUMATIC MALE ELBOW ORANGE
11	PNRD01058	CONNECTOR M5 - Ø4 PNEUMATIC MALE ELBOW ORANGE
12	PNRD01059	CONNECTOR M5 - Ø6 PNEUMATIC MALE ELBOW ORANGE
13	IZCS01025	GASKET AP3 MANIFOLD-ENCLOSURE EPDM 2MM SINGLE-SIDED ADHESIVE
14	PNDP02008	VACUUM GENERATOR
15	PNRD03048	ELBOW PIPE PASS-THROUGH Ø6 LONG
16	PNRD03049	REDUCTION STRAIGHT Ø6-Ø8
17	BECV03016	BOLT M3x6



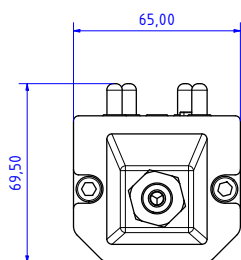
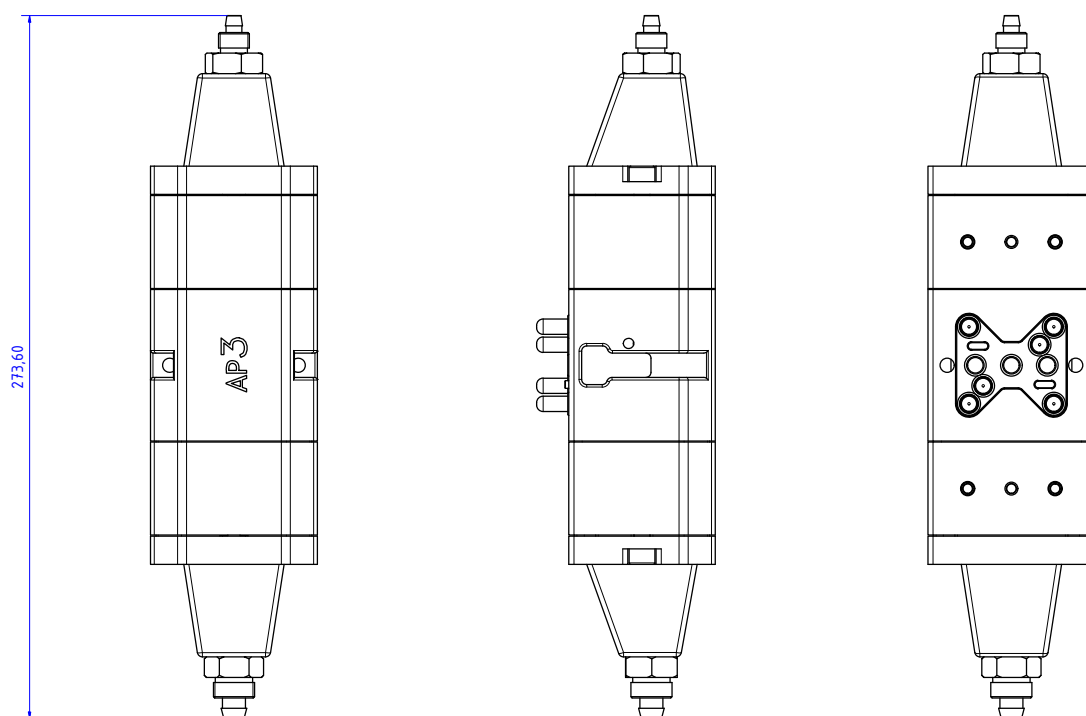
B07FAP3-ME04
E-FEED+3 AP3 BACK COVER - COMPLETE

Part No	Order Code	Part Name
1	PNRD03029	ELBOW CURTAIN PASSAGE Ø8
2	IZCS01026	GASKET AP3 REAR COVER EPDM 3MM SINGLE-SIDED ADHESIVE
3	IZOR02001	O-RING SILICONE (YELLOW) Ø12X1.5
4	ELON09035	E-FEED+3 AP3 SOCKET BOARD
5	B07FAP3-ME02	E-FEED+3 AP3 HOUSING REAR COVER (LEXAN)

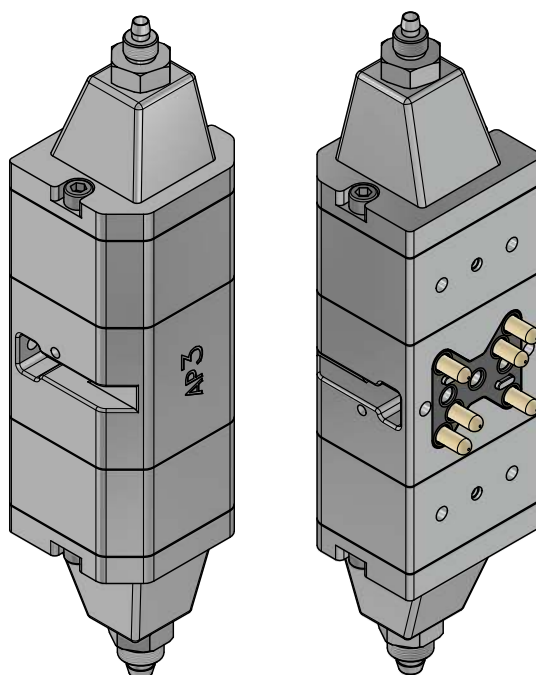


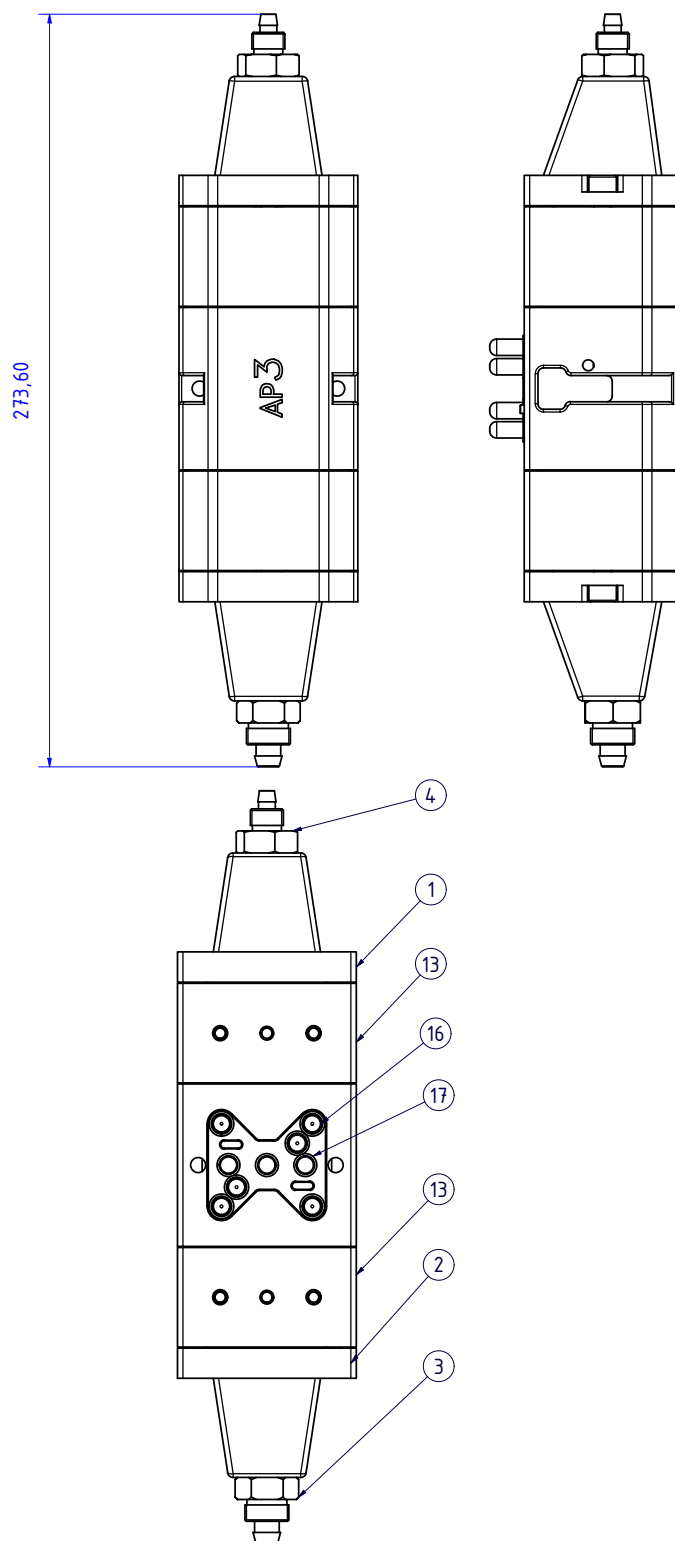
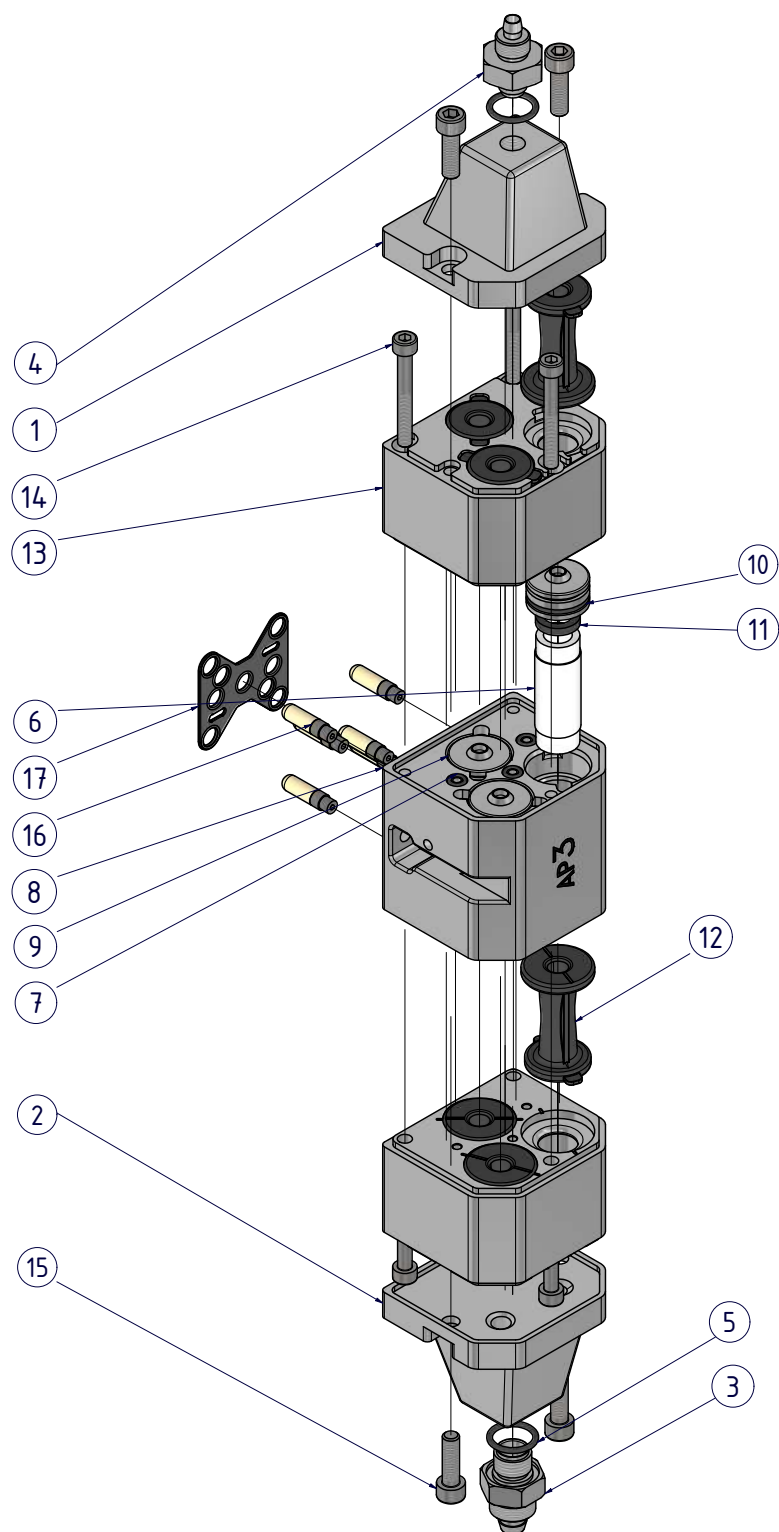
B07FAP3-ME03
E-FEED+3 AP3 CASE WITH FILTER (COMPLETE)

Part No	Order Code	Part Name
1	FRFL08006	FILTER PE 47x84x3 E-FEED +3 AP3 CASE (4-5 MICRON)
2	IZCS01007	GASKET EPDM 3MM E-FEED +3 AP3 FILTER
3	B06CE04006	E-FEED +3 AP3 FILTER PLATE
4	B07FAP3-ME01	E-FEED +3 AP3 ENCLOSURE METAL COMPONENT
5	BECV02001	BOLT M3x10



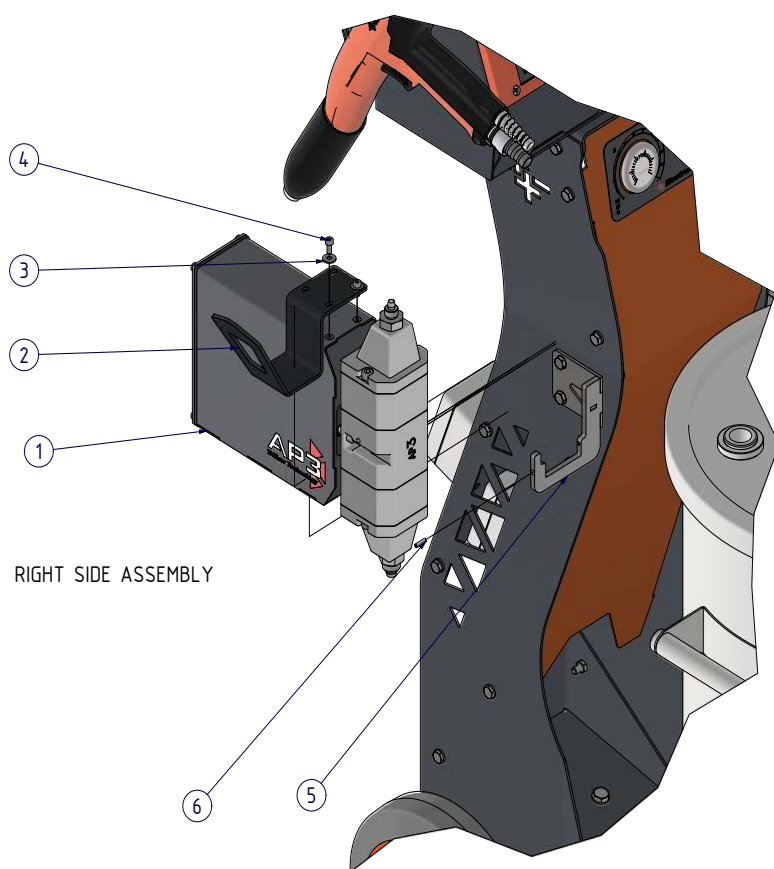
B07FAP3002
E-FEED+3 AP3 POWDER
TRANSFER UNIT
COMPLETE



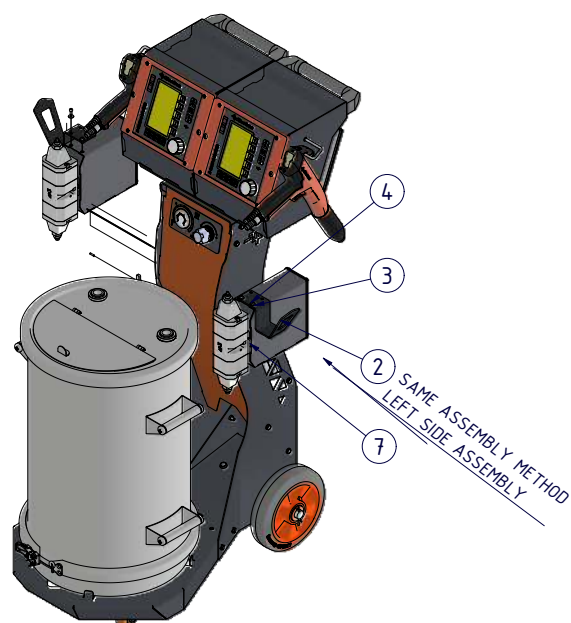


Part No	Order Code	Part Name	WEARING PART	RECOMMENDED STOCK PART
1	TRTM04212	AP3 3-1 SUCTION BODY	-	-
2	TRTM04213	AP3 3-1 TRANSFER BODY	-	-
3	TRTM04215	AP3 3-1 TRANSFER FITTING	-	-
4	TRTM04214	AP3 3-1 SUCTION FITTING	-	-
5	IZOR01096	O-RING 14x2	✓	✓
6	FRFL08015	FILTER Ø10-Ø16 L45 E-FEED+3 AP3	✓	✓
7	IZOR01098	O-RING Ø4X1,5	✓	✓
8	B07TRTM04218	AP3 SUCTION-TRANSFER BODY L59	-	-
9	TRTM07009	AP3 FILTER FRONT PART Ø22 L13 304	-	-
10	IZOR01006	O-RING 16x2	✓	✓
11	IZCS01008	GASKET EPDM 3MM E-FEED +3 AP3 FILTER INNER	✓	✓
12	PNPE06003	PINCH VALVE DN7.5 E-FEED +3 AP3	✓	✓
13	B07TRTM04211	AP3 PINCH VALVE BODY	-	-
14	BECV03064	BOLT M5x40	-	-
15	BECV03005	BOLT M6x20	-	-
16	FRFL08016	FILTER M5X0.8 Ø5.96 L22	✓	✓
17	ENEM04013	GASKET E-FEED+3 AP3 ISLAND-POWDER PATH CONNECTION	✓	✓

E-COAT+3 DEVICE CART DUAL HOSE HOLDER



RIGHT SIDE ASSEMBLY

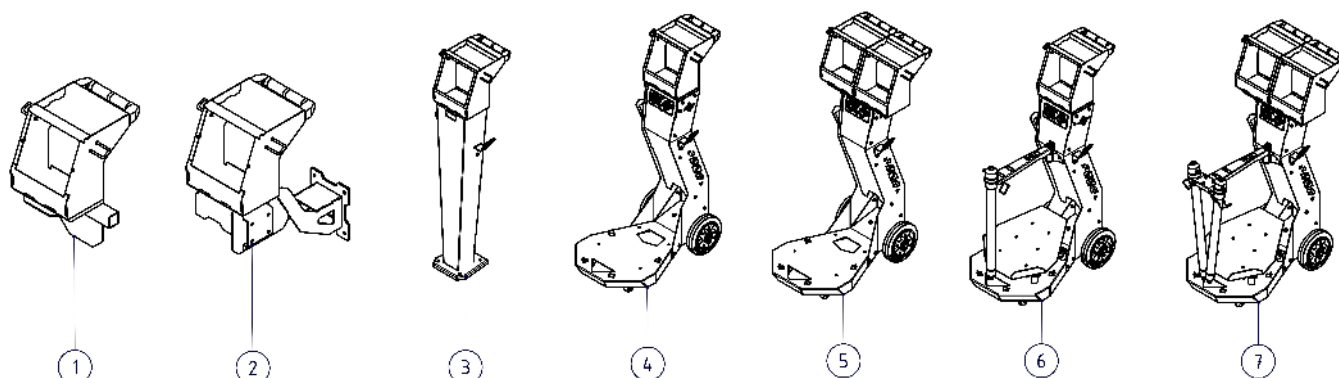


2 SAME ASSEMBLY METHOD
LEFT SIDE ASSEMBLY

Operation Instruction

1. Place the E-Feed+3 AP3 powder paint pump into its designated slot.
2. Secure it with the M4 setscrew (1 Nm).
3. Attach the hose holder part as shown. Use an M4 washer and tighten the bolt to 2 Nm torque.

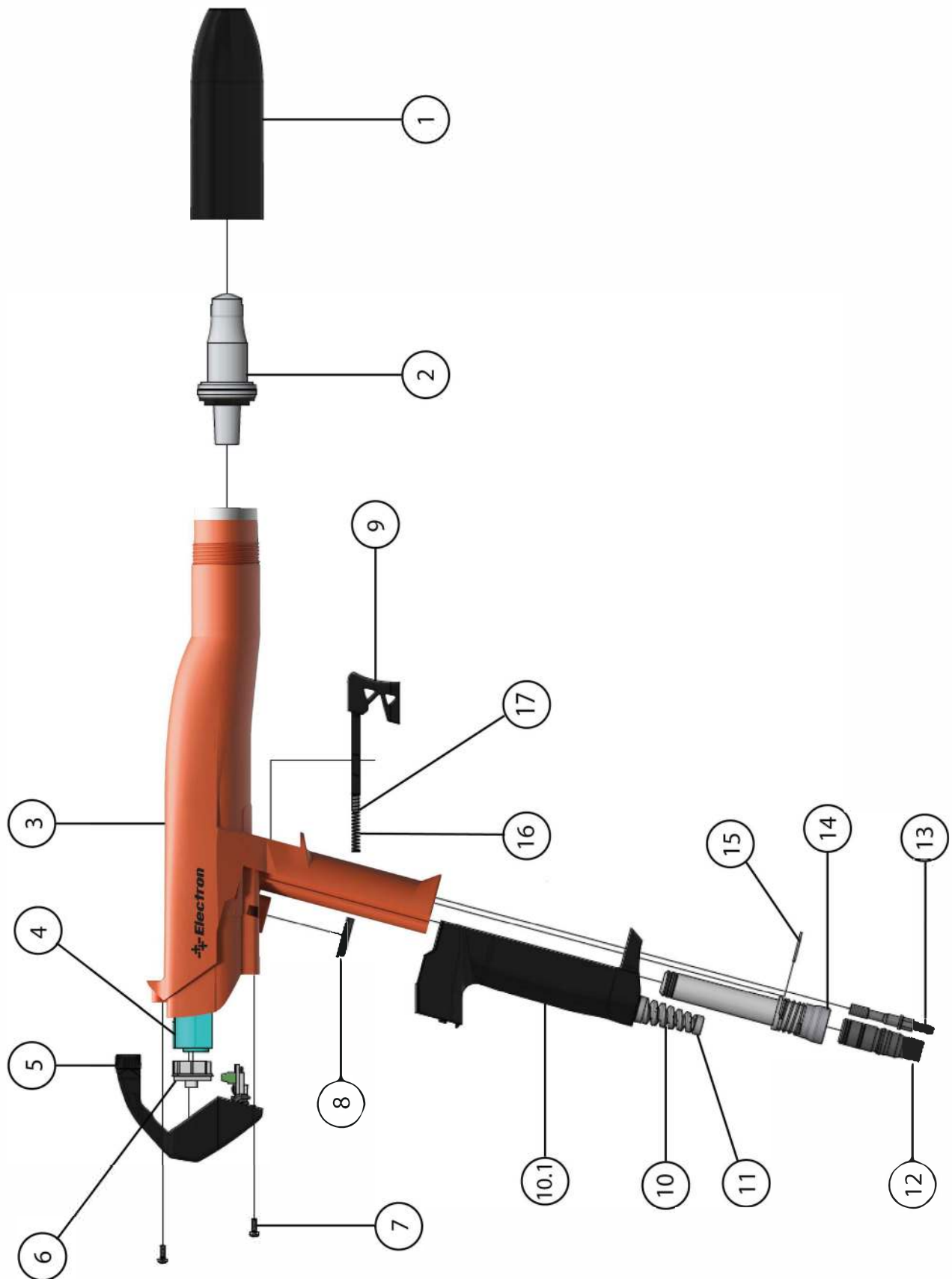
ITEM	QTY	DESCRIPTION	STOCK NUMBER
1	2	E-FEED+3 AP3 APPLICATION PUMP	B07FAP3001
2	2	E-COAT+3 DEVICE CART DUAL HOSE HOLDER	B06CE20062
3	4	WASHER M4	BEPL03002
4	4	COATED BOLT M4X10 ALLEN	BECVO3021
5	1	WELDED SHEET E-COAT+3 DEVICE CART AP3 LIFT KIT RIGHT	B07ECT121R
6	1	SET SCREW M4X16	BEDH08027
7	1	WELDED SHEET E-COAT+3 DEVICE CART AP3 LIFT KIT LEFT	B07ECT121L



Part No	Accessory Type	Order Code
1	E-COAT+3 PLATFORM MOUNTING KIT	B07ECT004+3
2	E-COAT+3 WALL MOUNTING KIT	B07ECT003+3
3	E-COAT+3 SINGLE STAND KIT	B07ECT005+3
4	E-COAT+3 MOBILE STAND KIT	B07ECT101
5	E-COAT+3 MOBILE STAND DUAL KIT	B07ECT106
6	E-COAT+3 MULTICOLOR KIT	B07ECT102
7	E-COAT+3 MULTICOLOR DUAL KIT	B07ECT107



Part No	Order Code	Part Name	Wearing Part
1	B07EGC100+3	E-GUN+3 C1 MANUEL POWDER COATING GUN	N/A



PART #	ORDER CODE	PART NAME	Wearing Part	RECOMMENDED STOCK PARTS	White Tip	Orange Tip
1	B10631007	E-GUN+3 NOZZLE TIGHTENING NUT	N/A	✓	✓	✓
2	B07531002K	E-GUN+3 FLAT HEAD GROUP (W STEPPED CAR. RING)	✓	✓	✓	X
3	B10631001	E-GUN+3 MANUAL GUN PLASTIC BODY (COMPLETE)	✓	✓	✓	✓
4	B07EGCN02	E-CASCADE+3	N/A	✓	✓	✓
5	B07BC0003	E-GUN+3 C1 BACK COVER (COMPLETE)	N/A	✓	✓	✓
5.1	B07EGK002	E-GUN+3 LED COMPLETE SET	N/A	✓	✓	✓
6	ENEM04009	E-GUN+3 ISOLATION GASKET	N/A	✓	✓	✓
7	BECV01001	M3X8 YSB BOLT	N/A	N/A	✓	✓
8	ENEM04011	E-GUN+3 HANDLE GASKET	N/A	✓	✓	✓
9	B07531003	E-GUN+3 MANUAL GUN TRIGGER (COMPLETE)	N/A	N/A	✓	✓
10	B07531005	E-GUN+3 MANUAL GUN HANDLE SET (COMPLETE)	N/A	N/A	✓	✓
10.1	B10631006	E-GUN+3 MANUAL GUN HANDLE PLASTIC	N/A	N/A	✓	✓
11	ELKA03008	E-GUN+3 SPIRAL TIP HOSE FITTINGS	N/A	N/A	✓	✓
12	B07EC0004	E-GUN+3 POWDER HOSE CONNECTION w/ O-RING	N/A	✓	✓	✓
13	TRTM08279	E-GUN+3 NEEDLE AIR INLET Ø8XL50	N/A	N/A	✓	✓
14	B07531004	E-GUN+3 MANUAL GUN POWDER INLET TUBE	✓	✓	✓	✓
15	B06CE22001	E-GUN+3 POWDER HOSE LOCKING	N/A	N/A	✓	✓
16	BEDH09013	E-GUN+3 CHROME TRIGGER SPRING	N/A	N/A	✓	✓
17	BEDH14008	E-GUN+3 CYLINDRICAL TRIGGER MAGNET	N/A	N/A	✓	✓



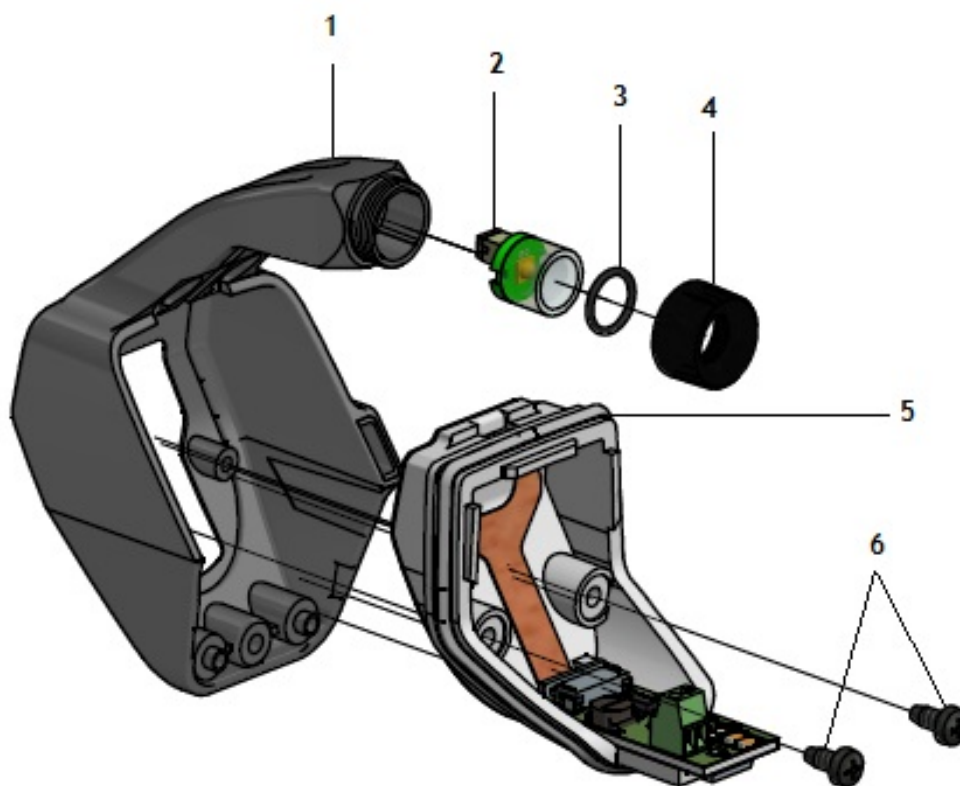
If the gun tip is **ORANGE**, use B07531002 instead of B07531002K. Other codes remain unchanged."



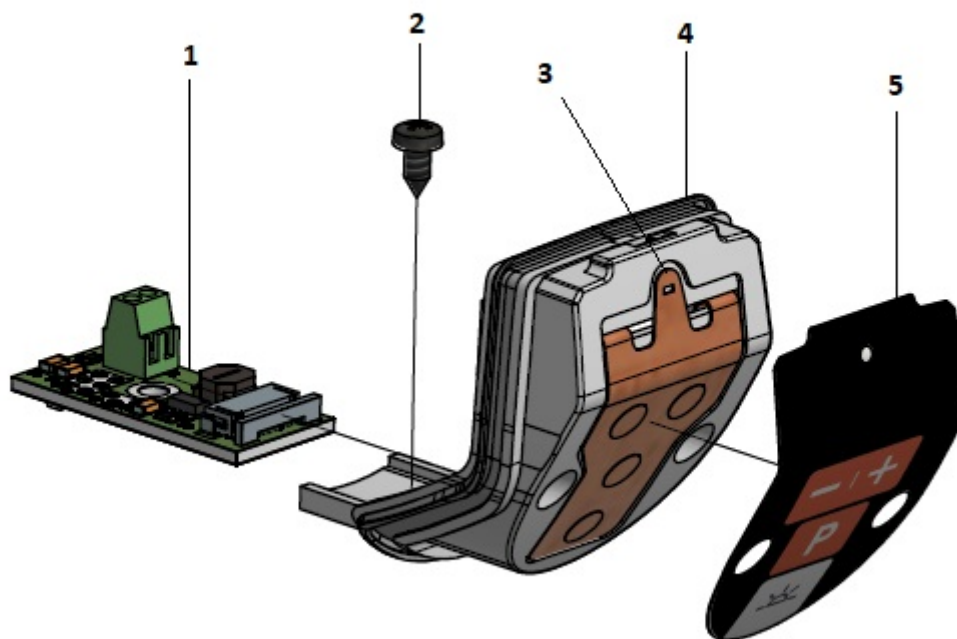
Orange Tip



White Tip



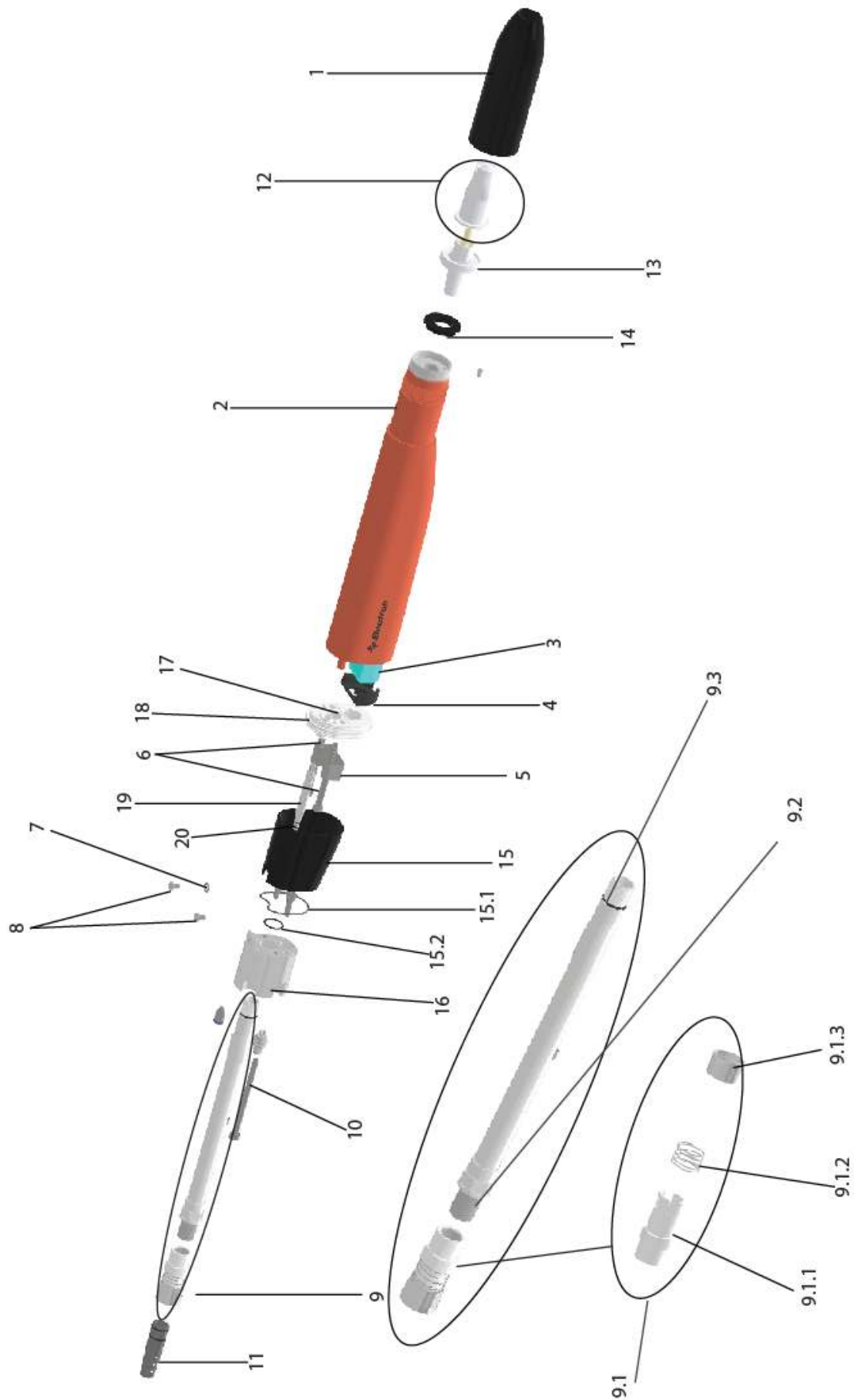
PART #	ORDER CODE	PART NAME	WEARING PART	RECOMMENDED STOCK PARTS
1	B10631008	E-GUN+3 C1 BACK COVER	N/A	✓
2	B07EGK002	E-GUN+3 LED LIGHT (COMPLETE)	N/A	N/A
3	IZOR01076	O-RING Ø8X1	✓	✓
4	B10631004	E-GUN+3 C1 LIGHT COVER PLASTIC	N/A	✓
5	B10631009	E-GUN+3 BUTTON BODY	N/A	✓
6	BECV09001	SCREW 3X6,5 PLASTIC PYSB METALLIC	N/A	N/A



PART #	ORDER CODE	PART NAME	WEARING PART	RECOMMENDED STOCK PARTS
1	B07EGK001	E-GUN+3 C1 MANUEL GUN CARD (COMPLETE)	N/A	✓
2	BECV09001	SCREW 3X6,5 PLASTIC PYSB METALLIC	N/A	N/A
3	B07LG5007	FLEX PCB	✓	✓
4	ENEM04010	E-GUN+3 BUTTON BODY GASKET	N/A	✓
5	ETKT03075	E-GUN+3 BACK KEYPAD LEXAN	N/A	✓



Part No	Order Code	Part Name	Wearing Part
1	B07EGC300+3	E-GUN+3 C3 AUTOMATIC POWDER COATING GUN	N/A



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	B10631007	E-GUN+3 C3 NOZZLE TIGHTENING NUT	N/A	N/A
2	B10632001	E-GUN+3 C3 PLASTIC FRONT BODY	✓	✓
3	B07EGCN02	E-CASCADE+3	N/A	✓
4	ENEM04012	E-GUN+3 C3 CASCADE ISOLATION GASKET	N/A	N/A
5	TRTM06245	E-GUN+3 C3 INSIDE ASSEMBLY PART	N/A	N/A
6	BECV01064	SCREW CYLNDRIC HEAD Ø5,5 FOR PLASTIC SPECIAL	N/A	N/A
7	BEPL03002	A 4.3 WASHER	N/A	N/A
8	BECV01020	M4X6-H SCREW	N/A	N/A
9	B07531001D	E-GUN+3 C3 PAINT INLET TUBE (COMPLETE)	N/A	✓
9.1	B07EC0026	E-GUN C3 QUICK CONNECTION HOSE INTAKE SET	N/A	✓
9.1.1	TRTM03009	E-GUN AUTOMATIC QUICK CONNECTION HOSE INTAKE	N/A	✓
9.1.2	BEDH09003	GUN HOSE INLET SPRING	N/A	✓
9.1.3	TRTM04009	E-GUN HOSE INTAKE LOCKING RING	N/A	✓
9.2	TRTM04009	MACHINED PAINT PIPE E GUN+3 MALE THREAD	✓	✓
9.3	IZOR01085	O-RİNG Ø10,5X1 NBR70	✓	✓
10	BECV08003	M5X70 CYLINDER HEAD CAP SCREW	N/A	N/A
11	B07EC0004	E-GUN+3 C3 HOSE CONNECTION PART W/ORING	✓	✓
12	TRTM01046	E-GUN+3 FLAT CAP	✓	✓
13	B07531006K	E-GUN+3 FLAT ELECTRODE GROUP (W STEPPED CAR. RING)	✓	✓
14	TRTM08470	E-GUN+3 Ø35 STEPPED CARBON RING	✓	✓
15	B10632003	AUTOMATIC GUN PLASTIC BODY BACK PART	N/A	N/A
15.1	IZOR01082	O-RİNG Ø37X1,5 NBR70	N/A	N/A
15.2	IZOR02003	O-RİNG SİLİKON (SARI) Ø14X1,5	N/A	✓
16	TRTM04196	AUTOMATIC GUN BACK FINISHER	✓	✓
17	B10632004	CASCADE COMPRESSION PLASTIC	✓	✓
18	IZOR01079	O-RING - CASCADE COMPRESSION PLASTIC	✓	✓
19	TRTM08301	E-GUN+3 C3 NEEDLE AIR TRANSMISSION PART	✓	✓
20	IZOR01081	O-RING Ø3X1	✓	✓



If the gun tip is **ORANGE**, use B07531006 and TRTM08282 instead of TRTM08470 and B07531006K . Other codes remain unchanged.



Orange Tip



White Tip

Note: Please check the nozzle types selection list



L = 5 m
L = 10 m

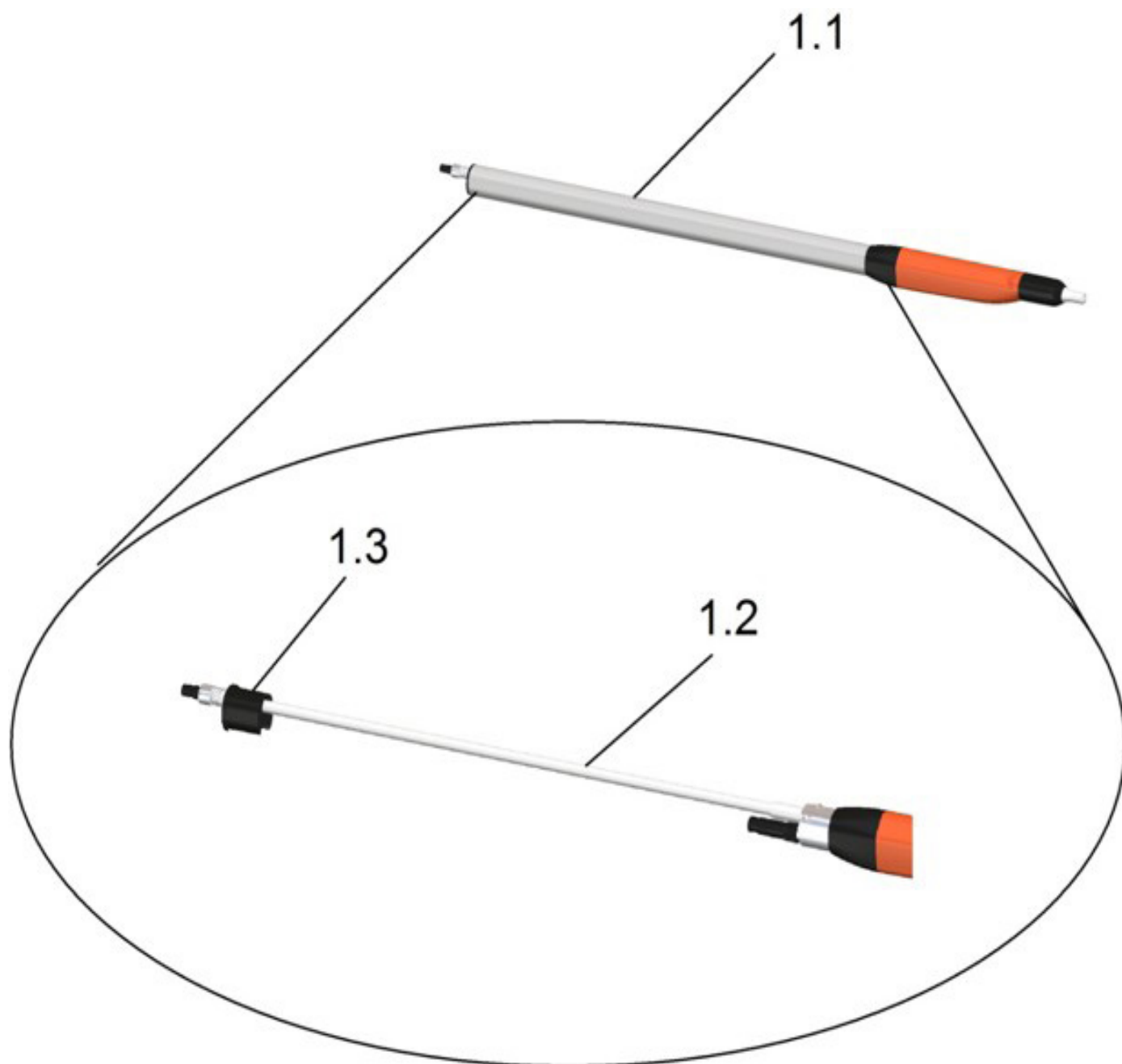
Part No	Part Name	Order Code	Wearing Part	RECOMMENDED STOCK PARTS
1	E-GUN GUN CABLE EXTENSION KIT 5 M	B07EXT005	N/A	N/A
2	E-GUN GUN CABLE EXTENSION KIT 10 M	B07EXT006	N/A	N/A



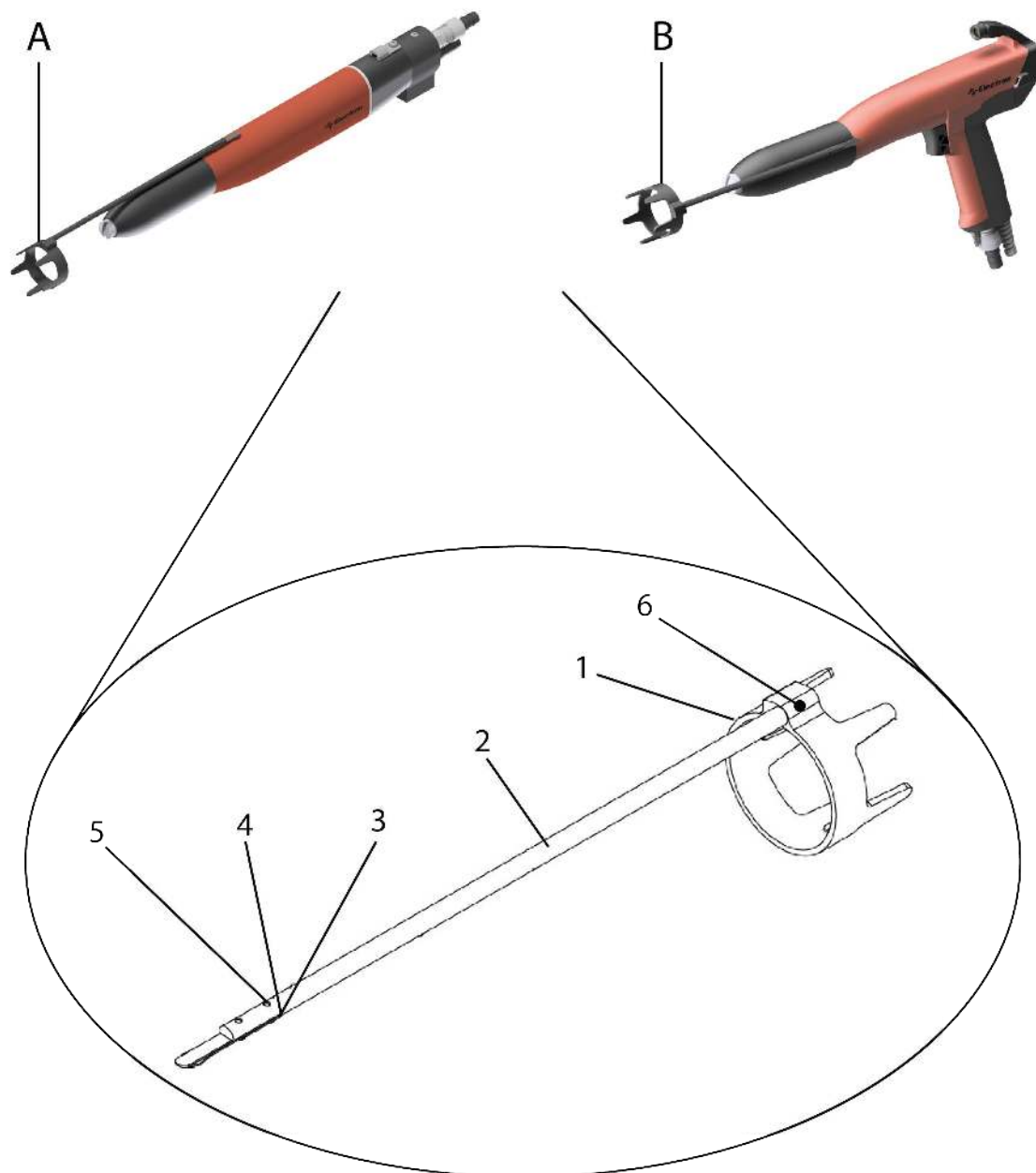
Part No	Part Name	Order Code	Wearing Part	RECOMMENDED STOCK PARTS
1	7X11,5 POWDER HOSE w/ DOUBLE CARBON DISCHARGE LINES (ORDER IN METERS)	PNHO03003	✓	✓



Part No	Part Name	Order Code	Wearing Part
1	E-COAT EARTHING CABLE (3m)	B07ECK506	N/A



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	B07RCA301	COMPOSITE RECIPROCATOR ARM	N/A	N/A
1.1	AKUA03002	E-GUN+3 C3 COMPOSITE RECIPROCATOR ARM 750 MM	N/A	✓
1.2	B07RCA301B	RECIPROCATOR ARM PAINT TRANSFER PIPE (COMPL.)	✓	✓
1.3	B06CE05001	RECIPROCATOR ARM BACK COVER	N/A	N/A

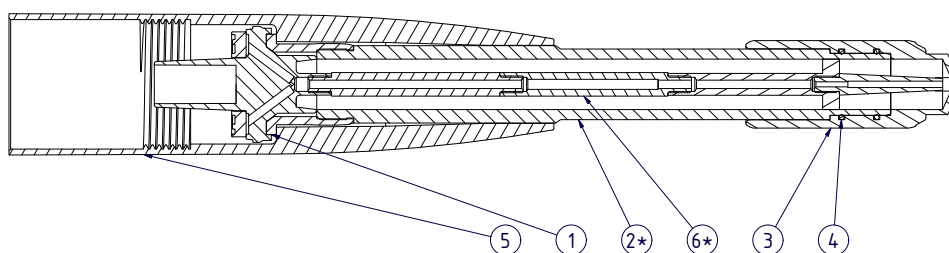
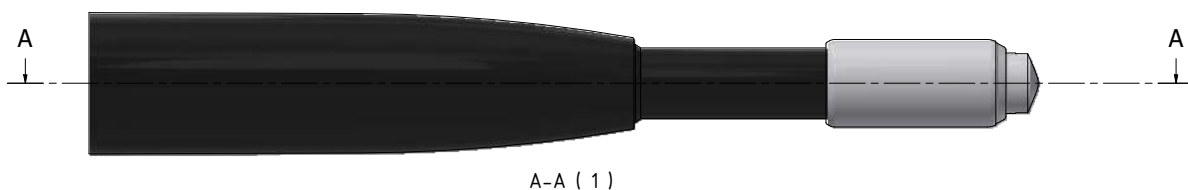


Part No	Order Code	Part Name	Wearing Part
A	B07FCR301	E-GUN+3 C3 FAST CORONA RING	N/A
B	B07FCR302	E-GUN+3 C1/C2 FAST CORONA RING	N/A
1	TRTM04199	E-GUN+3 FAST CORONA RING CHARGE COLLECTOR	N/A
2	TRTM04201	E-GUN+3 FAST CORONA RING SHAFT Ø6XL193	N/A
3	BEDH09017	E-GUN+3 FAST CORONA LOCKING SPRING	N/A
4	BEDH09016	E-GUN+3 FAST CORONA LOCKING BASE SPRING	N/A
5	BECV02041	SCREW M2,5X5	N/A
6	BEDH08003	SETSCREW M4X06	N/A

E-GUN+3 EXTENSION HEAD GROUPS

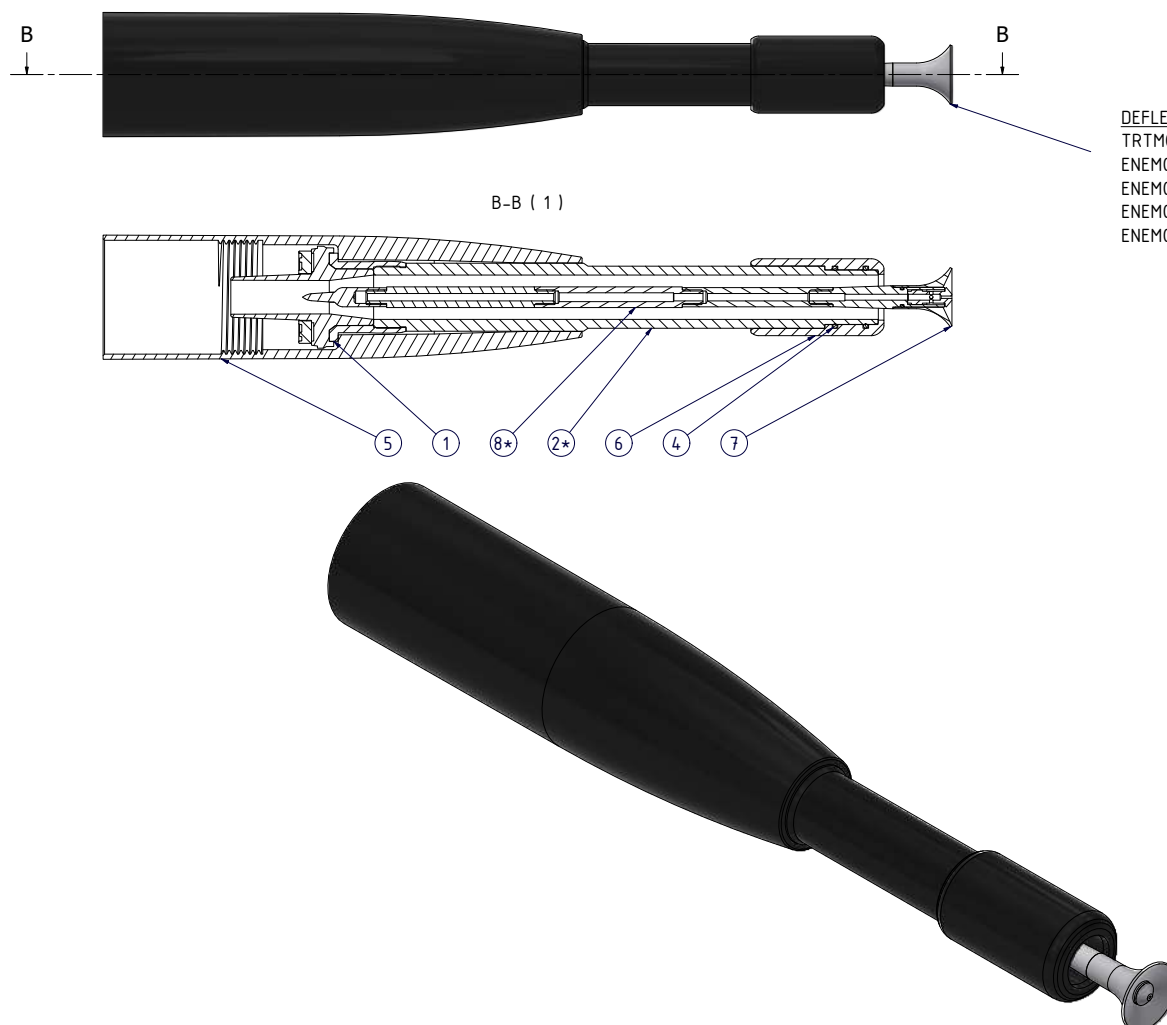
Compatibility	Code	Description
150mm	B07EXT031D	E-GUN+3 150 MM EXTENSION HEAD GROUP – DEFLECTOR
	B07EXT031F	E-GUN+3 150 MM EXTENSION HEAD GROUP – FLAT
250mm	B07EXT032D	E-GUN+3 250 MM EXTENSION HEAD GROUP – DEFLECTOR
	B07EXT032F	E-GUN+3 250 MM EXTENSION HEAD GROUP – FLAT
400m	B07EXT033D	E-GUN+3 400 MM EXTENSION HEAD GROUP – DEFLECTOR
	B07EXT033F	E-GUN+3 400 MM EXTENSION HEAD GROUP – FLAT
500mm	B07EXT500D	E-GUN+3 500 MM EXTENSION HEAD GROUP – DEFLECTOR
	B07EXT500F	E-GUN+3 500 MM EXTENSION HEAD GROUP – FLAT
750mm	B07EXT750D	E-GUN+3 750 MM EXTENSION HEAD GROUP – DEFLECTOR
	B07EXT750F	E-GUN+3 750 MM EXTENSION HEAD GROUP – FLAT
1000mm	B07EXT1000D	E-GUN+3 1000 MM EXTENSION HEAD GROUP – DEFLECTOR
	B07EXT1000F	E-GUN+3 1000 MM EXTENSION HEAD GROUP – FLAT
45°	B07EXT034D	E-GUN+3 45° ANGLED HEAD GROUP – DEFLECTOR
	B07EXT034F	E-GUN+3 45° ANGLED HEAD GROUP – FLAT
90°	B07EXT035D	E-GUN+3 90° ANGLED HEAD GROUP – DEFLECTOR
	B07EXT035F	E-GUN+3 90° ANGLED HEAD GROUP – FLAT

FLAT TYPES EXTENSION 150-250-400-500-750 mm



STOCK NUMBER	DESCRIPTION	ITEM	QTY	TYPE
ENEM01049	E-GUN ANGLE-EXTENSION ELECTRODE FEMALE PART	1	1	COMMON
TRTM03109	E-GUN+3 150MM EXTENSION ELECTRODE MALE PART	2*	1	150 mm
TRTM03113	E-GUN+3 250MM EXTENSION ELECTRODE MALE PART	2*	1	250 mm
TRTM03108	E-GUN+3 400MM EXTENSION ELECTRODE MALE PART	2*	1	400 mm
TRTM03113	E-GUN+3 500MM EXTENSION ELECTRODE MALE PART	2*	1	500 mm
TRTM03140	E-GUN+3 750MM EXTENSION ELECTRODE MALE PART	2*	1	750 mm
TRTM01049	E-GUN+3 EXTENSION-ANGLED ELECTRODE FLAT CAP	3	1	COMMON
IZOR01007	O-RING Ø18X1.5 NBR70	4	2	COMMON
TRTM03111	E-GUN+3 EXTENSION TYPE COMPRESSION NUT L162	5	1	COMMON
B07EXT031F-IPA	E-GUN+3 150 MM EXTENSION FLAT ELECTRODE GROUP	6*	1	150 mm
B07EXT032F-IPA	E-GUN+3 250 MM EXTENSION FLAT ELECTRODE GROUP	6*	1	250 mm
B07EXT033F-IPA	E-GUN+3 400 MM EXTENSION FLAT ELECTRODE GROUP	6*	1	400 mm
B07EXT500F-IPA	E-GUN+3 500 MM EXTENSION FLAT ELECTRODE GROUP	6*	1	500 mm
B07EXT750F-IPA	E-GUN+3 750 MM EXTENSION FLAT ELECTRODE GROUP	6*	1	750 mm

*only one must be selected according to the length of the extension head group.

DEFLECTOR TYPES EXTENSION 150-250-400-500-750 mm

DEFLECTOR OPTIONS:

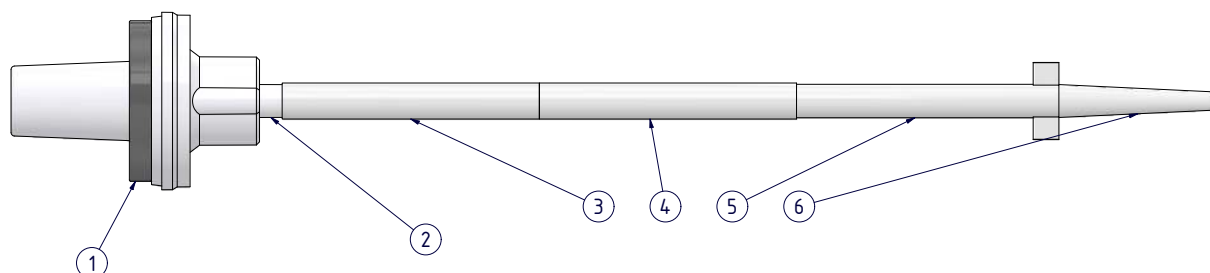
TRTM03013	E-GUN Ø13 DEFLECTOR
ENEM01044	E-GUN Ø16 DEFLECTOR
ENEM01045	E-GUN Ø20 DEFLECTOR
ENEM01046	E-GUN Ø24 DEFLECTOR
ENEM01067	E-GUN Ø32 DEFLECTOR

STOCK NUMBER	DESCRIPTION	ITEM	QTY	TYPE
ENEM010149	E-GUN ANGLE-EXTENSION ELECTRODE FEMALE PART	1	1	COMMON
TRTM03109	E-GUN+3 150MM EXTENSION ELECTRODE MALE PART	2*	1	150 mm
TRTM03113	E-GUN+3 250MM EXTENSION ELECTRODE MALE PART	2*	1	250 mm
TRTM03108	E-GUN+3 400MM EXTENSION ELECTRODE MALE PART	2*	1	400 mm
TRTM03113	E-GUN+3 500MM EXTENSION ELECTRODE MALE PART	2*	1	500 mm
TRTM03140	E-GUN+3 750MM EXTENSION ELECTRODE MALE PART	2*	1	750 mm
TRTM01049	E-GUN+3 EXTENSION-ANGLED ELECTRODE FLAT CAP	3	1	COMMON
IZOR01007	O-RING Ø18X15 NBR70	4	1	COMMON
TRTM03111	E-GUN+3 EXTENSION TYPE COMPRESSION NUT L162 (MACHINING)	5	1	COMMON
TRTM01050	E-GUN+3 EXTENSION-ANGLED ELECTRODE DEFLECTOR CAP	6	1	DEFLECTOR COMMON
ENEM01045	E-GUN Ø20 DEFLECTOR	7	1	DEFLECTOR COMMON
B0FEXT031D-IPA	E-GUN+3 150MM EXTENSION DEFLECTOR ELECTRODE GROUP	8*	1	150 mm
B0FEXT032D-IPA	E-GUN+3 250MM EXTENSION DEFLECTOR ELECTRODE GROUP	8*	1	250 mm
B0FEXT033D-IPA	E-GUN+3 400MM EXTENSION DEFLECTOR ELECTRODE GROUP	8*	1	400 mm
B0FEXT500D-IPA	E-GUN+3 500MM EXTENSION DEFLECTOR ELECTRODE GROUP	8*	1	500 mm
B0FEXT750D-IPA	E-GUN+3 750MM EXTENSION DEFLECTOR ELECTRODE GROUP	8*	1	750 mm

*only one must be selected according to the length of the extension head group.

B07EXT031F-IPA

E-GUN+3 150 MM EXTENSION FLAT ELECTRODE GROUP



TRTM02018 (additional number of pieces in other assemblies)

B07EXT032F-IPA (250 mm) : **+2 pcs**

B07EXT033F-IPA (400 mm) : **+5 pcs**

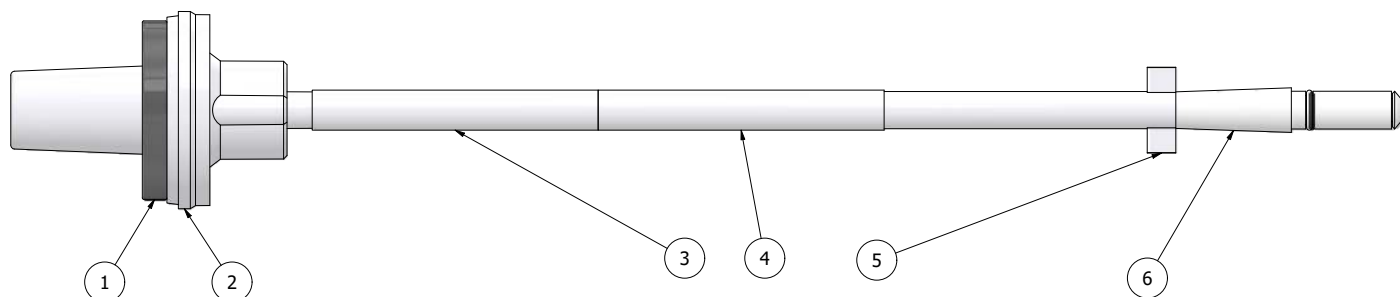
B07EXT500F-IPA (500 mm) : **+7 pcs**

B07EXT750F-IPA (750 mm) : **+12 pcs**

STOCK NUMBER	ITEM	QTY	DESCRIPTION
TRTM08282	1	1	E-GUN+3 Ø31 CARBON RING
B10631003	2	1	E-GUN+3 ELECTROD BODY
TRTM02017	3	1	E-GUN EXTENSION ELECTRODE RESISTANCE SHAFT ATTACHMENT
TRTM02018	4	1	E-GUN EXTENSION ELECTRODE RESISTANCE SHAFT T PIECE ATTACHMENT
ENEM01048	5	1	E-GUN ANGLE-EXTENSION ELECTRODE RESISTANCE SHAFT FRONT T PART
TRTM01022	6	1	E-GUN FLAT HEAD GROUP CONICAL INSULATOR

B07EXT031D-IPA

E-GUN+3 150 MM EXTENSION DEFLECTOR ELECTRODE GROUP



TRTM02018 (additional number of pieces in other assemblies)

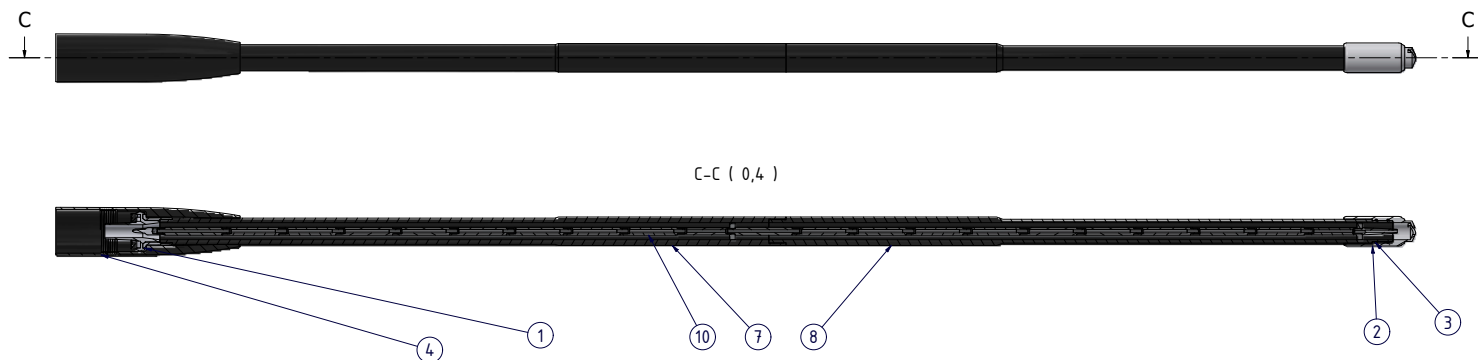
B07EXT032D-IPA (250 mm) : **+2 pcs**

B07EXT033D-IPA (400 mm) : **+5 pcs**

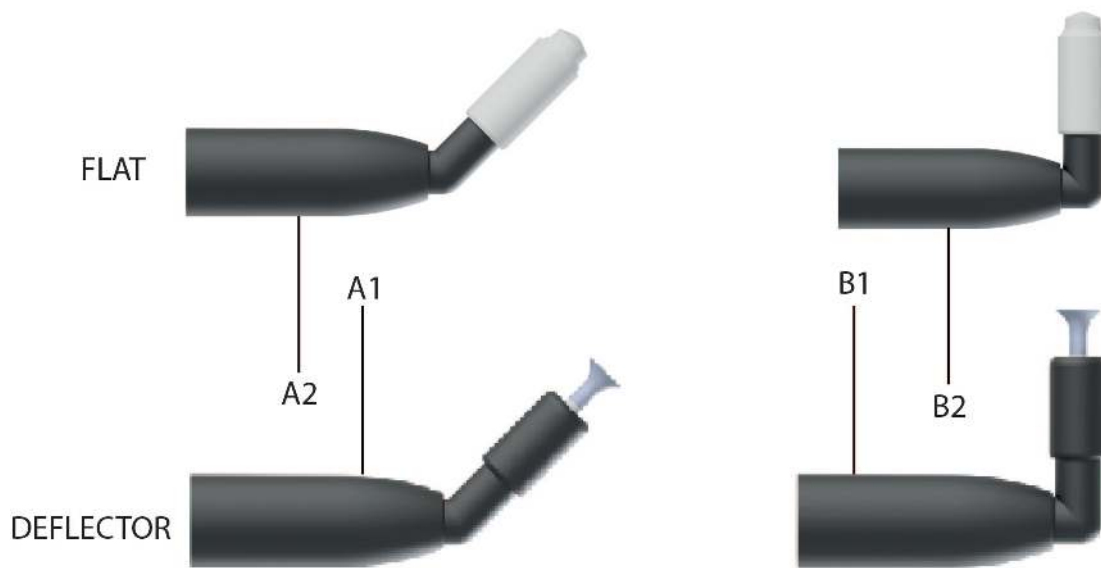
B07EXT500D-IPA (500 mm) : **+7 pcs**

B07EXT750D-IPA (750 mm) : **+12 pcs**

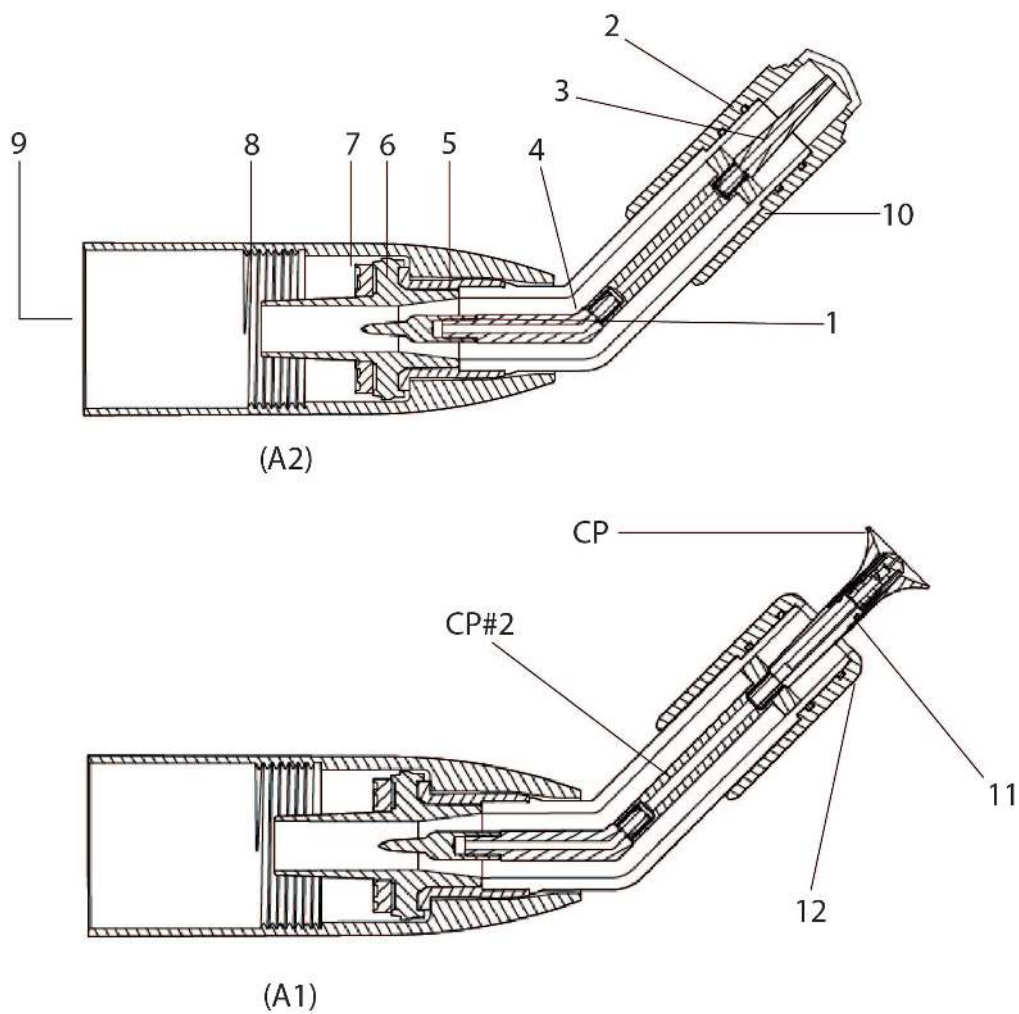
STOCK NUMBER	ITEM	QTY	DESCRIPTION
TRTM08282	1	1	E-GUN+3 Ø31 CARBON RING
B10631003	2	1	E-GUN+3 ELECTROD BODY
TRTM02017	3	1	E-GUN EXTENSION ELECTRODE RESISTANCE SHAFT ATTACHMENT
TRTM02018	4	1	E-GUN EXTENSION ELECTRODE RESISTANCE SHAFT T PIECE ATTACHMENT
ENEM01048	5	1	E-GUN ANGLE-EXTENSION ELECTRODE RESISTANCE SHAFT FRONT T PART
B07524503	6	1	E-GUN+3 DEFLECTOR HEAD GROUP SHAFT SET

B07EXT1000F E-GUN+3 1000 MM EXTENSION HEAD GROUP FLAT


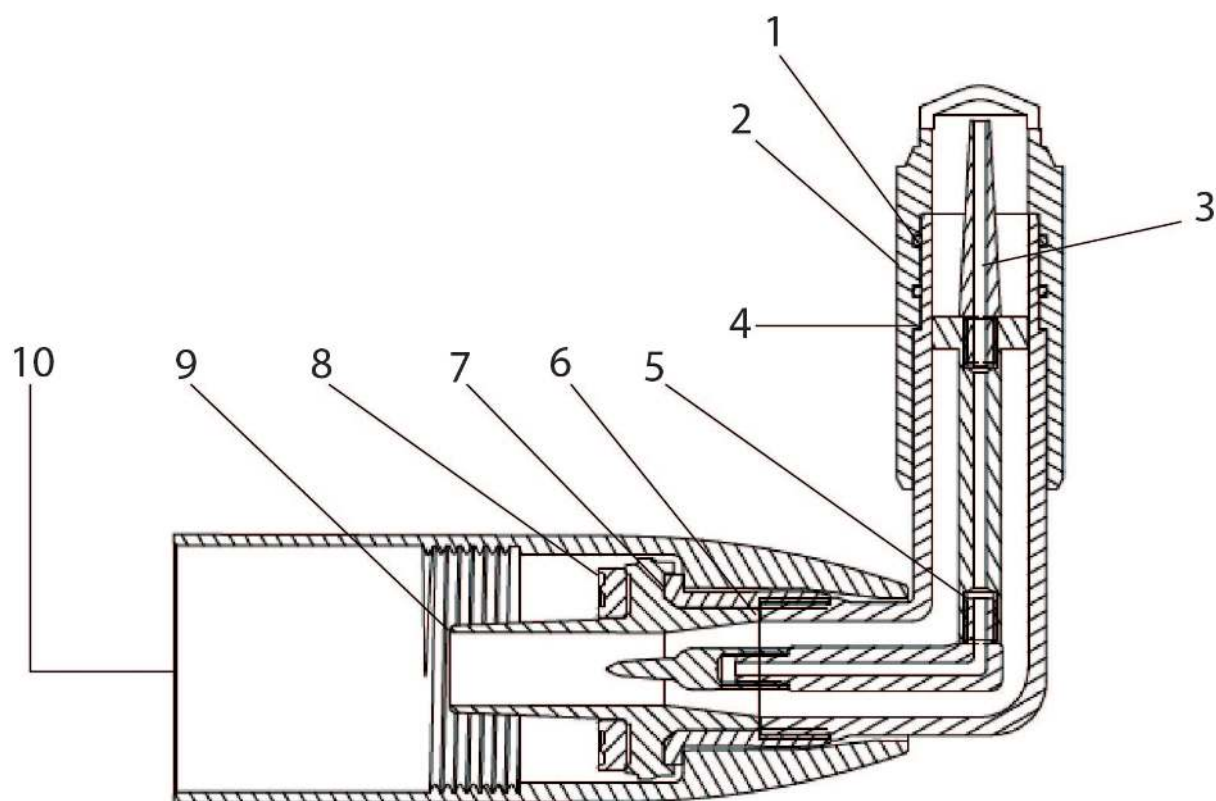
STOCK NUMBER	DESCRIPTION	ITEM	QTY
ENEM01049	E-GUN ANGLE-EXTENSION ELECTRODE FEMALE PART	1	1
TRTM01049	E-GUN+3 EXTENSION-ANGLED ELECTRODE FLAT CAP	2	1
IZOR01007	O-RING Ø18X1,5 NBR70	3	2
TRTM03111	E-GUN+3 EXTENSION TYPE COMPRESSION NUT L162	4	1
TRTM03137	E-GUN+3 1000MM EXTENSION ELECTRODE MALE BASE (PART-1)	7	1
TRTM03138	E-GUN+3 1000MM EXTENSION ELECTRODE MALE TIP (PART-2)	8	1
B07EXT1000F-IPA	E-GUN+3 1000 MM EXTENSION FLAT ELECTRODE GROUP	10	1



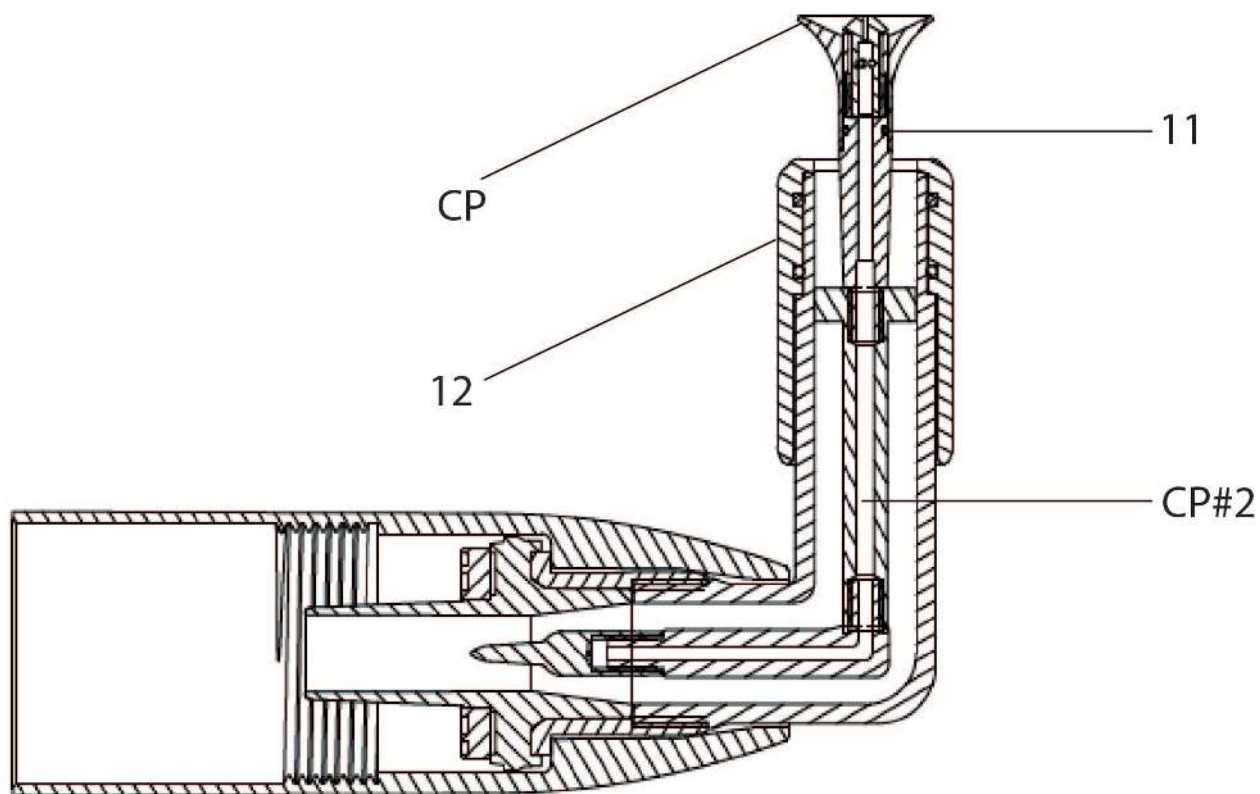
ANGLED HEAD GROUPS DEFLECTOR & FLAT



ANGLED HEAD GROUPS DEFLECTOR & FLAT



FLAT (B2)



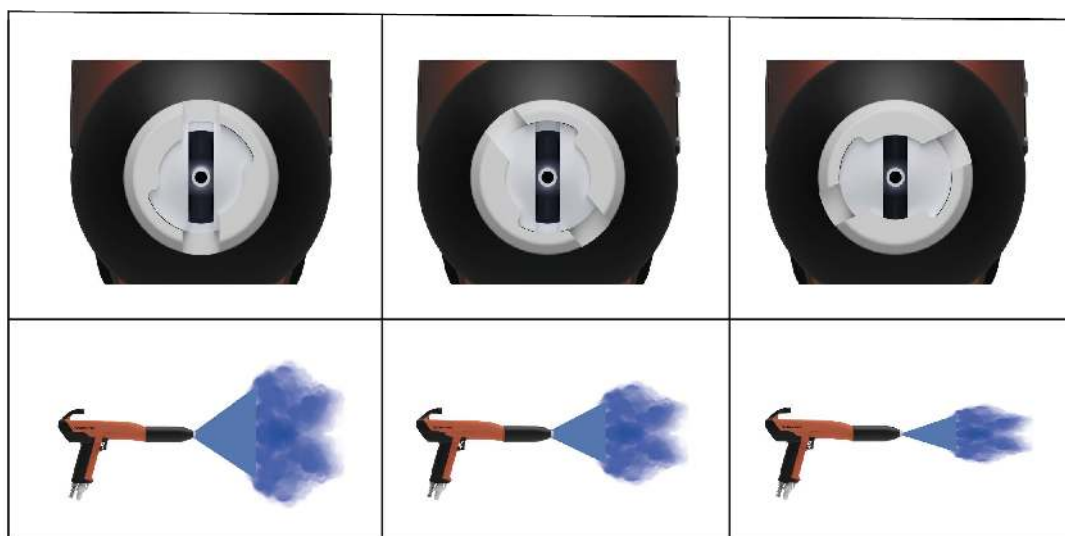
DEFLECTOR (B1)

Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
A1	B07EXT034D	E-GUN+3 45° ANGLED HEAD GROUP - DEFLECTOR	N/A	N/A
A2	B07EXT034F	E-GUN+3 45° ANGLED HEAD GROUP - FLAT	N/A	N/A
1	ENEM01051	E-GUN 45° ANGLED ELECTRODE MALE PART	N/A	N/A
2	IZOR01007	O-RING Ø18X1,5	N/A	N/A
3	TRTM01022	FLAT HEAD GROUP CONICAL ISOLATOR	N/A	N/A
4	ENEM01048	ANGLED EXTENSION ELECTRODE RESISTOR SHAFT FRONT T PART	N/A	N/A
5	ENEM01050	E-GUN 45° ANGLED SHAFT	N/A	N/A
6	ENEM01049	ANGLED EXTENSION ELECTRODE FEMALE PART	N/A	N/A
7	TRTM08282	E-GUN+3 Ø31 CARBON RING	N/A	N/A
8	B10631003D	E-GUN+3 ELECTRODE BODY W/RESISTANCE	N/A	N/A
9	TRTM03114	E-GUN+3 ANGLED TYPE TIGHTENING NUT	N/A	N/A
10	TRTM01049	E-GUN+3 ANGLED-EXTENSION ELECTRODE FLAT CAP	N/A	N/A
11	B07524502	E-GUN HEAD GROUP SHAFT SET W/ DEFLECTOR	N/A	✓
12	TRTM01050	E-GUN+3 EXTENSION-ANGLED ELECTRODE DEFLECTOR CAP	N/A	✓
Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
B1	B07EXT035D	E-GUN+3 90° ANGLED HEAD GROUP - DEFLECTOR	N/A	N/A
B2	B07EXT035F	E-GUN+3 90° ANGLED HEAD GROUP - FLAT	N/A	N/A
1	IZOR01007	O-RING Ø18X1,5	N/A	N/A
2	TRTM01049	E-GUN+3 ANGLED-EXTENSION ELECTRODE FLAT CAP	N/A	N/A
3	TRTM01022	FLAT HEAD GROUP CONICAL ISOLATOR	N/A	N/A
4	ENEM01048	ANGLED EXTENSION ELECTRODE RESISTOR SHAFT FRONT T PART	N/A	N/A
5	ENEM01052	E-GUN 90° ANGLED ELECTRODE MALE PART	N/A	N/A
6	ENEM01053	E-GUN 90° ANGLED SHAFT	N/A	N/A
7	ENEM01049	E-GUN ANGLED EXTENSION ELECTRODE FEMALE PART	N/A	N/A
8	TRTM08282	E-GUN+3 Ø31 CARBON RING	N/A	N/A
9	B10631003D	E-GUN+3 ELECTRODE BODY W/RESISTANCE	N/A	N/A
10	TRTM03114	E-GUN+3 ANGLED TYPE TIGHTENING NUT	N/A	N/A
11	B07524502	E-GUN HEAD GROUP SHAFT SET W/ DEFLECTOR	N/A	✓
12	TRTM01050	E-GUN+3 EXTENSION-ANGLED ELECTRODE DEFLECTOR CAP	N/A	✓
CP	*	DEFLECTOR	N/A	N/A
1	ENEM01044	DEFLECTOR Ø16	✓	✓
2	ENEM01045	DEFLECTOR Ø20	✓	✓
3	ENEM01046	DEFLECTOR Ø24	✓	✓
CP#2	ELON01012	RESISTANCE 15 MΩ 1/4 W (for every 150 mm)	N/A	N/A

Note: CP means Common Parts. The deflector group and resistance used in this listing is the same as the extension group. It is not shown again in the images.



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	TRTM03112	E-GUN+3 FLAT CAP PATTERN ADJUSTER	✓	✓
2	B07EGC100+3	E-GUN+3 C1 MANUAL GUN	N/A	N/A
3	B07EGC300+3	E-GUN+3 C3 AUTOMATIC GUN (Not Shown)	N/A	N/A
4	B07EGC200+3	E-GUN+3 C2 MANUAL GUN (Not Shown)	N/A	N/A



STANDARD PATTERN

NARROW PATTERN

FOCUSED PATTERN

The Pattern adjuster attached to the tip of the manual or automatic gun ensures that the paint coming out of the gun is formed in a narrowed form. It is used by rotating and has three positions.

- 1.Standard Pattern
- 2.Narrow Pattern
- 3.Focused Patern

The pattern adjuster ensures that the powder paint reaches the deepest points of the recessed parts. It is recommended for use in coating parts with recesses or complex geometry.



Check the color of the gun tip. If the tip is **ORANGE**, the stock numbers listed above are compatible with the gun. If the tip is **WHITE**, refer to the alternative variation.



Orange Tip



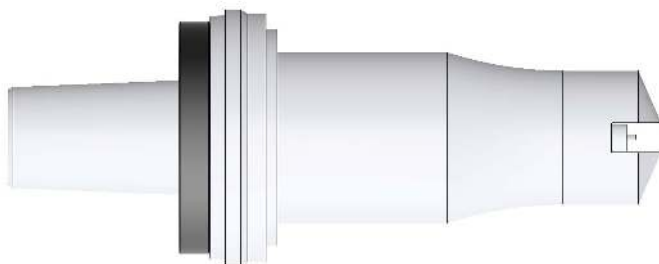
White Tip



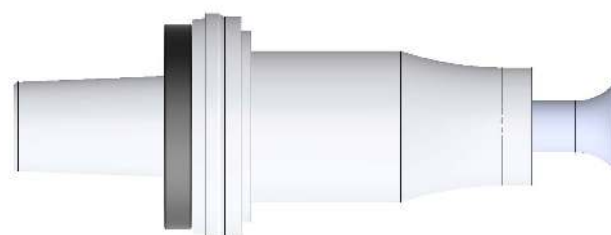
1



2

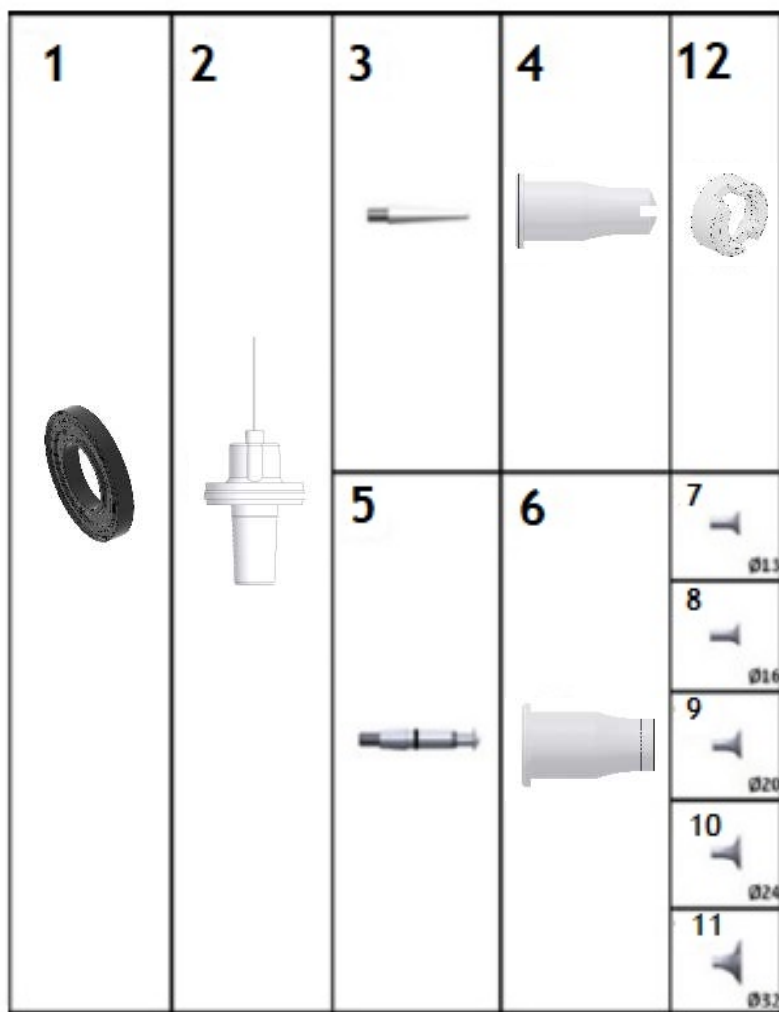


3



4

Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	B07531006	E-GUN+3 FLAT ELECTRODE GROUP	✓	✓
2	B07531007	E-GUN+3 ELECTRODE GROUP WITH DEFLECTOR	✓	✓
3	B07531002	E-GUN+3 FLAT HEAD GROUP	✓	✓
4	B07531008	E-GUN+3 HEAD GROUP WITH DEFLECTOR	✓	✓



Check the color of the gun tip. If the tip is **ORANGE**, the stock listed are compatible with the gun. If the tip is **WHITE**, refer to the alternative variation.



Orange Tip



White Tip

ITEM	STOCK NUMBER	PART NAME	WEARING PART	RECOMMENDED STOCK PARTS	WHITE TIP	ORANGE TIP
1	TRTM08282	E-GUN+3 Ø31 CARBON RING	✓	✓	✗	✓
2	B10631003D	E-GUN+3 ELECTRODE BODY	✓	✓	✓	✓
3	TRTM01022	E-GUN+3 FLAT HEAD GROUP CONICAL INSULATOR	✓	✓	✓	✓
4	TRTM01046	E-GUN+3 FLAT CAP	✓	✓	✓	✓
5	B07524503	E-GUN+3 DEFLECTOR HEAD ASSEMBLY SHAFT SET	✓	✓	✓	✓
6	TRTM01048	E-GUN+3 DEFLECTOR CAP	✓	✓	✓	✓
7	TRTM0313	E-GUN+3 Ø13 DEFLECTOR	✓	✓	✓	✓
8	ENEM01044	E-GUN+3 Ø16 DEFLECTOR	✓	✓	✓	✓
9	ENEM101045	E-GUN+3 Ø20 DEFLECTOR	✓	✓	✓	✓
10	ENEM01046	E-GUN+3 Ø24 DEFLECTOR	✓	✓	✓	✓
11	ENEM01067	E-GUN+3 Ø32 DEFLECTOR	✓	✓	✓	✓
12	TRTM03112	E-GUN+3 FLAT CAP PATTERN ADJUSTER	✓	✓	✓	✓



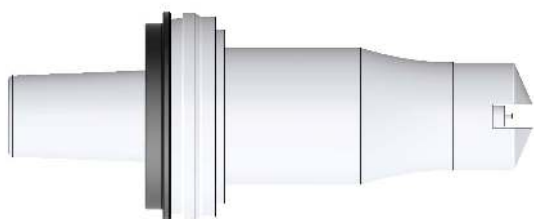
Check the color of the gun tip. If the tip is **WHITE**, the stock numbers listed above are compatible with the gun. If the tip is **ORANGE**, refer to the alternative variation.



Orange Tip



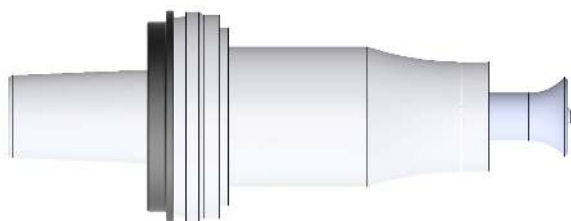
White Tip



1



2

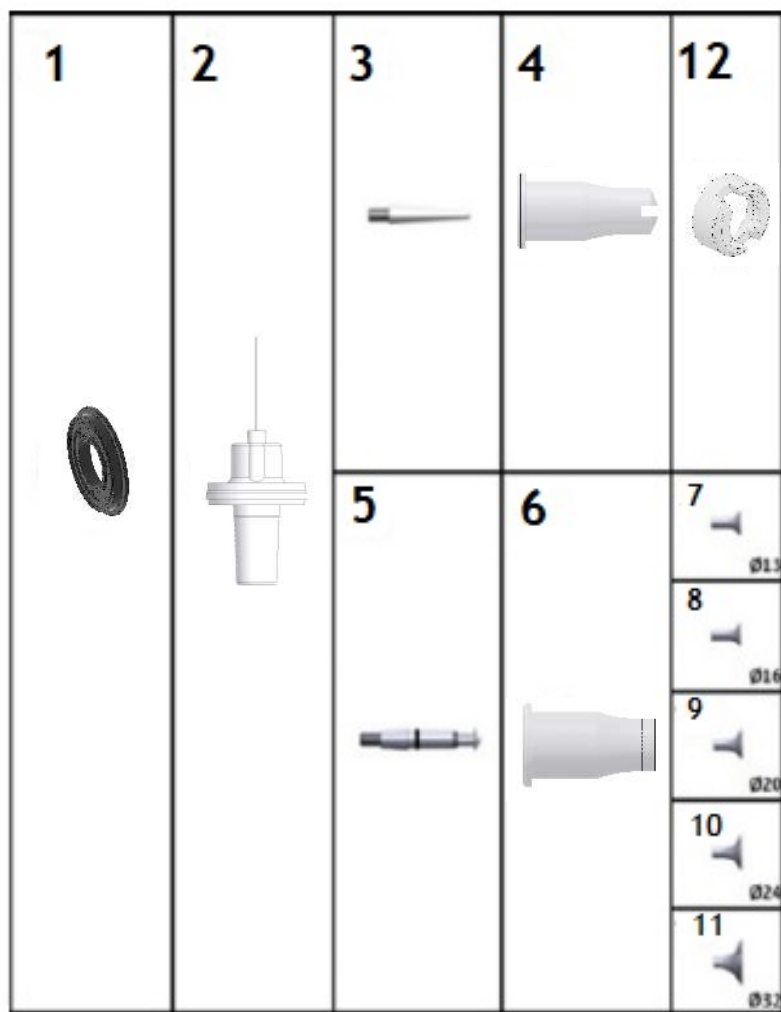


3



4

Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
1	B07531002K	E-GUN+3 FLAT HEAD GROUP (STEP. CARBON)	✓	✓
2	B07531006K	E-GUN+3 FLAT ELEKTROD GROUP (STEP.CARBON)	✓	✓
3	B07531008K	E-GUN+3 DEFLECTOR HEAD GROUP (STEP.CARBON)	✓	✓
4	B07531007K	E-GUN+3 DEFLECTOR ELECTRODE GROUP(STEP.CARBON)	✓	✓



Check the color of the gun tip. If the tip is **WHITE**, the stock listed are compatible with the gun. If the tip is **ORANGE**, refer to the alternative variation.

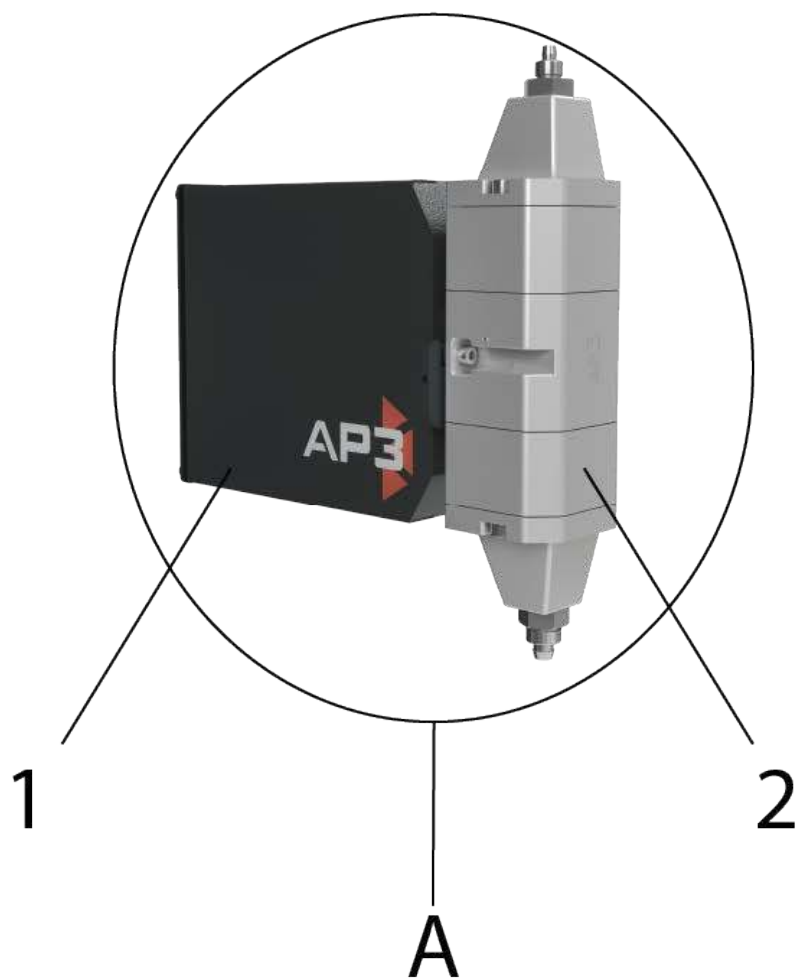


Orange Tip

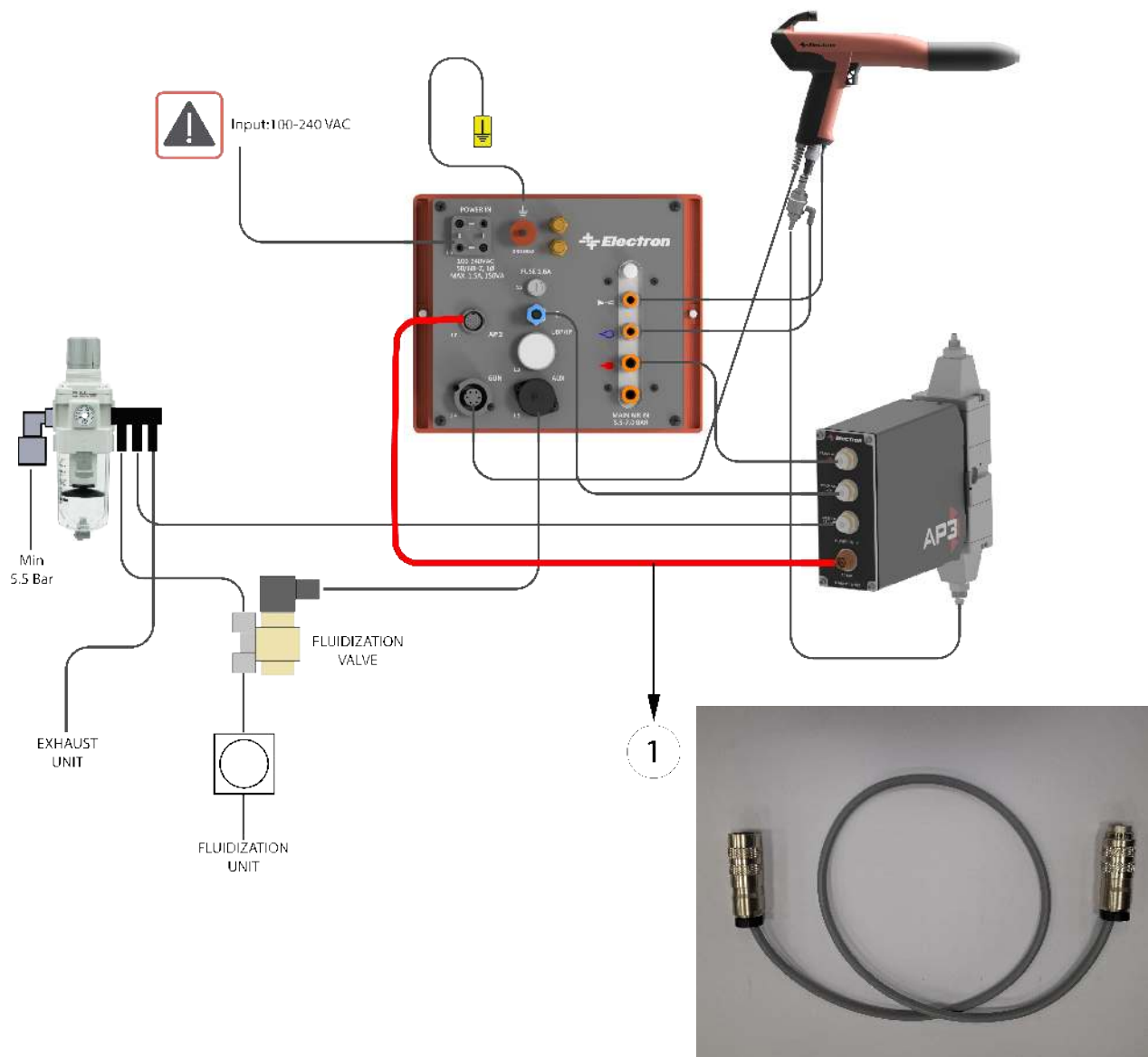


White Tip

ITEM	STOCK NUMBER	PART NAME	WEARING PART	RECOMMENDED STOCK PARTS	WHITE TIP	ORANGE TIP
1	TRTM08470	E-GUN+3 Ø35 STEPPED CARBON RING	✓	✓	✓	X
2	B10631003D	E-GUN+3 ELECTRODE BODY	✓	✓	✓	✓
3	TRTM01022	E-GUN+3 FLAT HEAD GROUP CONICAL INSULATOR	✓	✓	✓	✓
4	TRTM01046	E-GUN+3 FLAT CAP	✓	✓	✓	✓
5	B07524503	E-GUN+3 DEFLECTOR HEAD ASSEMBLY SHAFT SET	✓	✓	✓	✓
6	TRTM01048	E-GUN+3 DEFLECTOR CAP	✓	✓	✓	✓
7	TRTM0313	E-GUN+3 Ø13 DEFLECTOR	✓	✓	✓	✓
8	ENEM01044	E-GUN+3 Ø16 DEFLECTOR	✓	✓	✓	✓
9	ENEM101045	E-GUN+3 Ø20 DEFLECTOR	✓	✓	✓	✓
10	ENEM01046	E-GUN+3 Ø24 DEFLECTOR	✓	✓	✓	✓
11	ENEM01067	E-GUN+3 Ø32 DEFLECTOR	✓	✓	✓	✓
12	TRTM03112	E-GUN+3 FLAT CAP PATTERN ADJUSTER	✓	✓	✓	✓

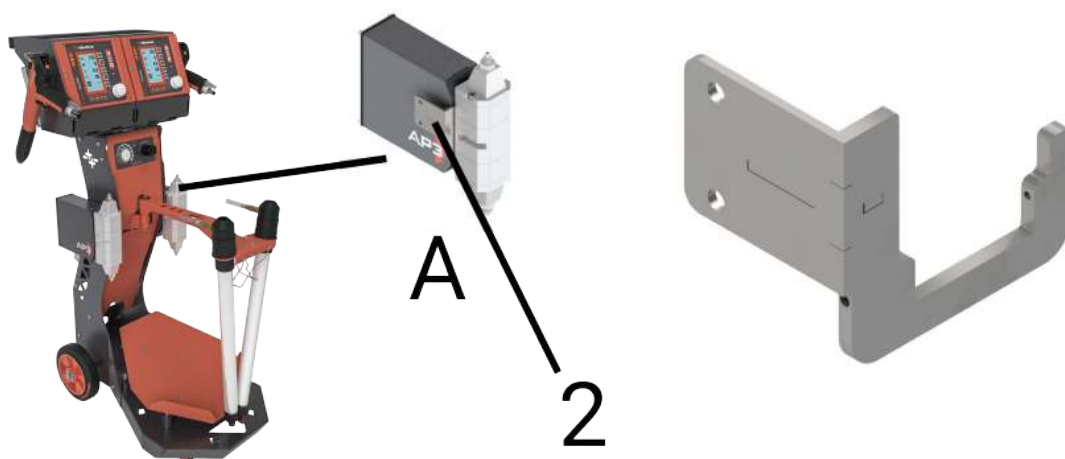
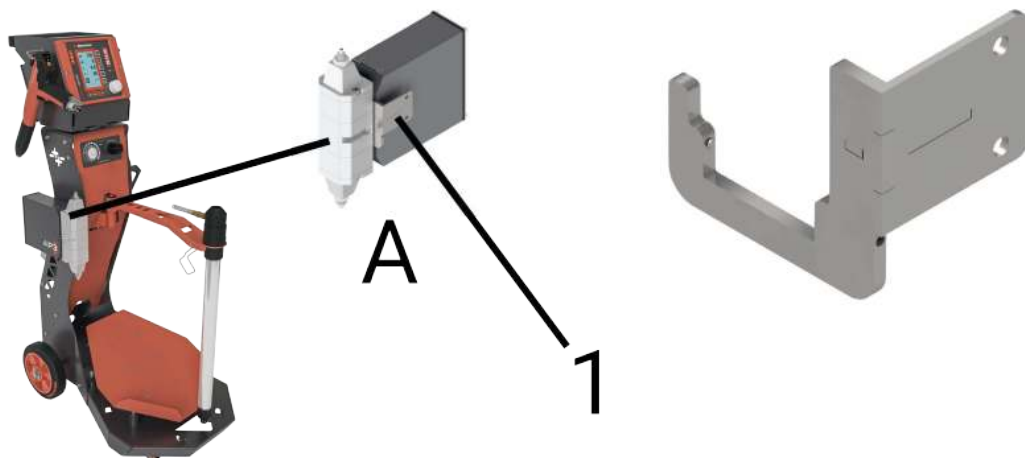


Part No	Order Code	Part Name
A	B07FAP3001	E-FEED+3 AP3 APPLICATION PUMP - COMPLETE
1	B07FAP3003	E-FEED+3 AP3 APPLICATION PUMP ELECTRO-PNEUMATIC CONTROL UNIT
2	B07FAP3002	E-FEED+3 AP3 POWDER TRANSFER UNIT - COMPLETE



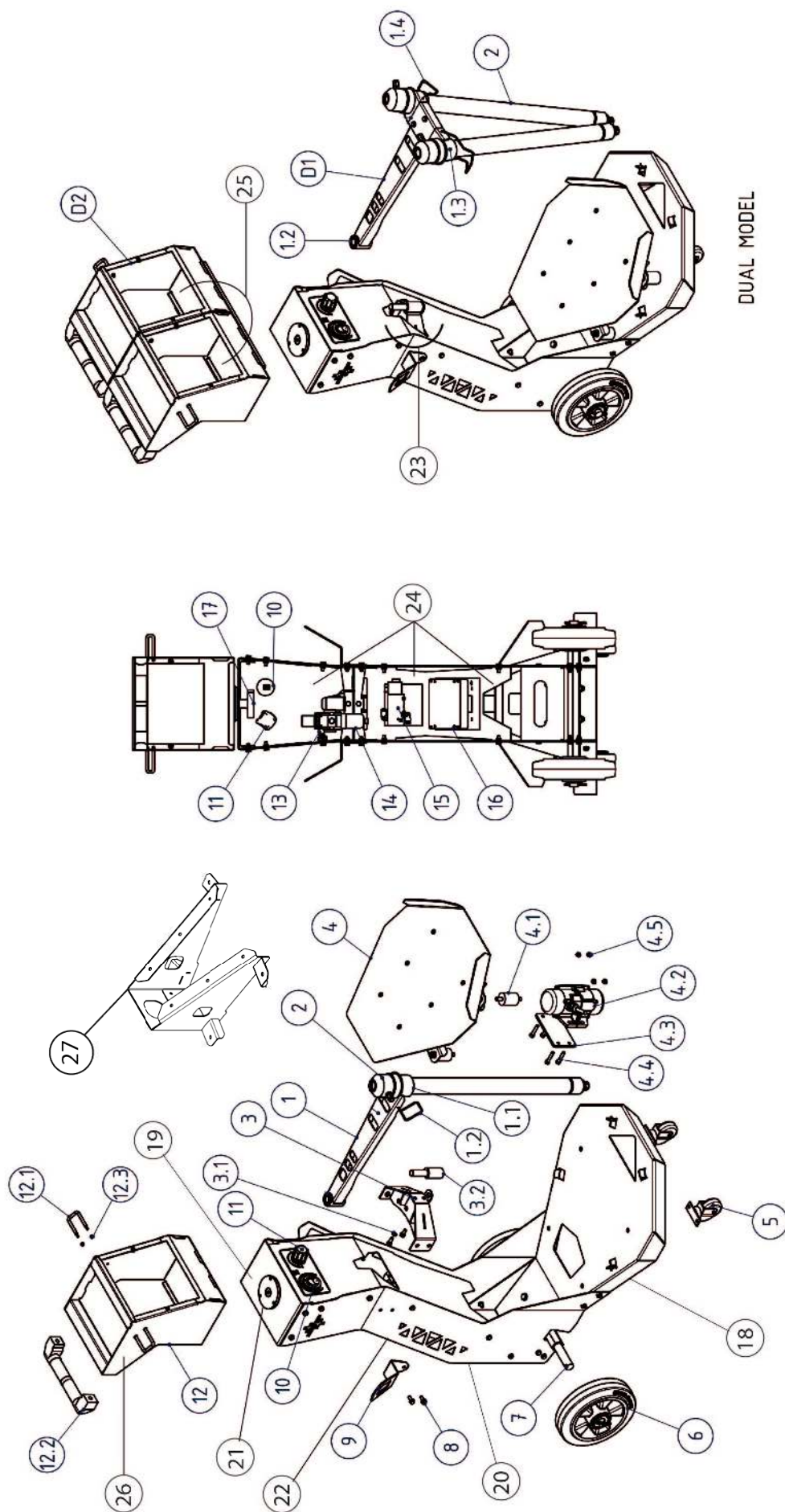
Part #	Order Code	CABLE NAME	Qty
1	B07FAPK301	E-FEED+3 AP3 CONTROL CABLE 0.8 METER	*
	B07FAPK302	E-FEED+3 AP3 CONTROL CABLE 5 METER	*
	B07FAPK303	E-FEED+3 AP3 CONTROL CABLE 10 METER	*
	B07FAPK304	E-FEED+3 AP3 CONTROL CABLE 15 METER	*
	B07FAPK305	E-FEED+3 AP3 CONTROL CABLE 20 METER	*
	B07FAPK306	E-FEED+3 AP3 CONTROL CABLE 25 METER	*

* For the connections, see the “**Connection instructions**” section on page 17.



Part No	Order Code	Part Name
A	B07FAP3001	E-FEED+3 AP3 APPLICATION PUMP
1	B07ECT121R	E-COAT+3 DEVICE CART AP3 CONNECTION PART RIGHT
2	B07ECT121L	E-COAT+3 DEVICE CART AP3 CONNECTION PART LEFT

Note: "B07FAP3001" Powder Application pump does not include "Connection Part"

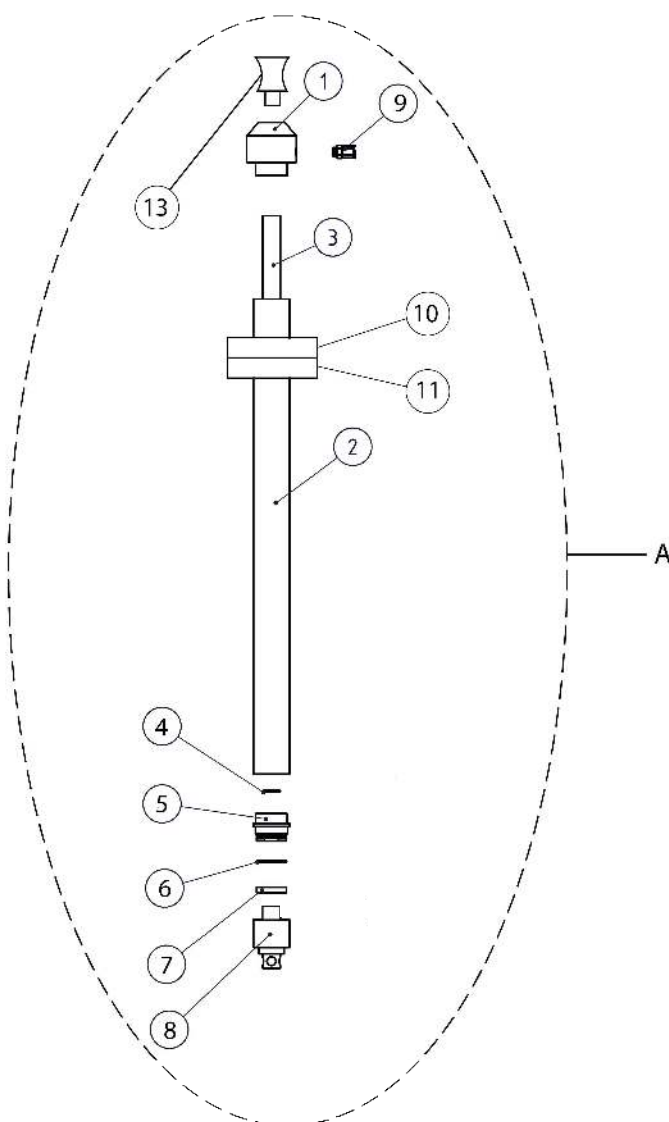


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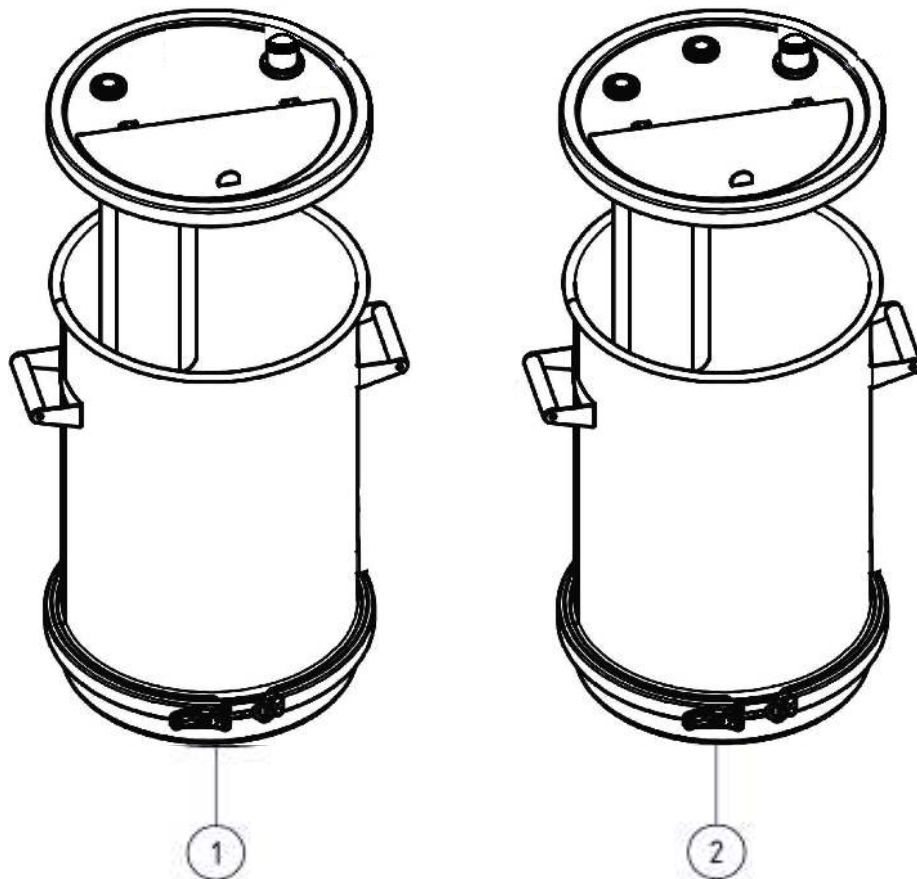
Part No	Order Code	Part Name	Wearing Part
1	B07ECCA011	E-COAT+3 MULTICOLOR SUCTION TUBE ARM ASSEMBLY	N/A
1.1	TRTM03067	E-COAT+3 MULTICOLOR SUCTION TUBE HOLDER BUSHING	N/A
1.2	BEDH13024	E-COAT+3 MULTICOLOR SUCTION TUBE LOCK	N/A
2	B07ECM012+3	E-COAT+3 AP3 TYPE MULTICOLOR SUCTION TUBE	✓
3	B07ECCA007	E-COAT+3 MULTICOLOR SUCTION TUBE BRACKET ASSEMBLY	N/A
3.1	BEPL04009	LOCK WASHER	N/A
3.2	TRTM04185	E-COAT+3 MULTICOLOR TUBE ARM HANGER	N/A
4	B06CE20014	E-COAT+3 MULTICOLOR VIBRATION PLATE	N/A
4.1	AKUA03026	E-COAT+3 MULTICOLOR VIBRATION INSULATOR	N/A
4.2	MPMT03075	MOTOR VIBRATION 12KGF 25W 230V-50HZ 1FAZ EX II 2D	N/A
4.3	TRTM03037	E-COAT+3 MULTICOLOR VIBRATION MOTOR PATCH BLOCK	N/A
4.4	BECV03030	BOLT M6X30 YHB	N/A
5	AKUA08006	E-COAT+3 MOBILE TROLLEY FRONT WHEEL	N/A
6	AKUA08005	E-COAT+3 MOBILE TROLLEY BACK WHEEL 200X50	N/A
7	TRTM04048	E-COAT+3 MOBILE TROLLEY BACK WHEEL SHAFT	N/A
8	BECV06005	BOLT M6X20 YHB	N/A
9	B06CE20025	E-COAT+3 MOBILE TROLLEY HOSE CABLE HANGER	N/A
10	PNPE07002	MANOMETER Ø40 2,5 BAR	N/A
11	PNPE01002	REGULATOR ¼" 0-3,5 BAR	N/A
12	B07560005	E-COAT+3 MOBILE TROLLEY HEAD	N/A
12.1	AKUA04002	E-COAT+3 MOBILE TROLLEY HEAD GUN HANGER	N/A
12.2	AKUA02001	E-COAT+3 MOBILE TROLLEY HEAD HANDLE	N/A
12.3	BESM02001	NUT M4 FIBER TIGHT	N/A
13	B06CE20017	E-COAT+3 MOBILE TROLLEY REGULATOR BRACKET	N/A
14	PNPE02001	REGULATOR ¼" 0,5-8,5 BAR	N/A
15	PNPE04001	VALVE 3/2 - ¼" Ex II 3D	N/A
16	B07EMC001	E-COAT+3 MULTICOLOR RELAY BOX	N/A
17	AKUA07011	BAKELITE SCREW KNOBS	N/A
18	B07ECCA001	E-COAT+3 MOBIL TROLLEY BASE ASSEMBLY	N/A
19	B07ECCA002	E-COAT+3 MOBIL TROLLEY TOP SHEET GROUP	N/A
20	B07ECCA003	E-COAT+3 MOBIL TROLLEY LEFT SIDE SHEE GROUP	N/A
21	B07ECCA004	E-COAT+3 DEVICE HEAD ROTATION SHEET GROUP	N/A
22	B07ECCA006	E-COAT+3 MOBIL TROLLEY BACK SUPPORT GROUP	N/A
23	B07ECCA005	E-COAT+3 HOPPER BODY GROUP	N/A
24	B07ECCA009	E-COAT+3 MULTICOLOR BODY GROUP	N/A
25	B07ECCA010	E-COAT+3 DUAL HEAD BOTTOM BASE GROUP	N/A
26	B07560005	E-COAT+3 MOBILE TROLLEY CONNECTION HEAD	N/A
D1	B07ECCA012	E-COAT+3 MULTICOLOR DUAL SUCTION TUBE ASSEMBLY	N/A
D2	B07560005D	E-COAT+3 MOBILE TROLLEY DUAL HEAD	N/A
27	B07ECCA008	E-COAT+3 MULTICOLOR VIBRATION PLATE MOUNT	N/A

Note: The E-COAT+3 Multicolor Suction Tube seen in number 2 is both the Wearing and Recommended Stock Part.

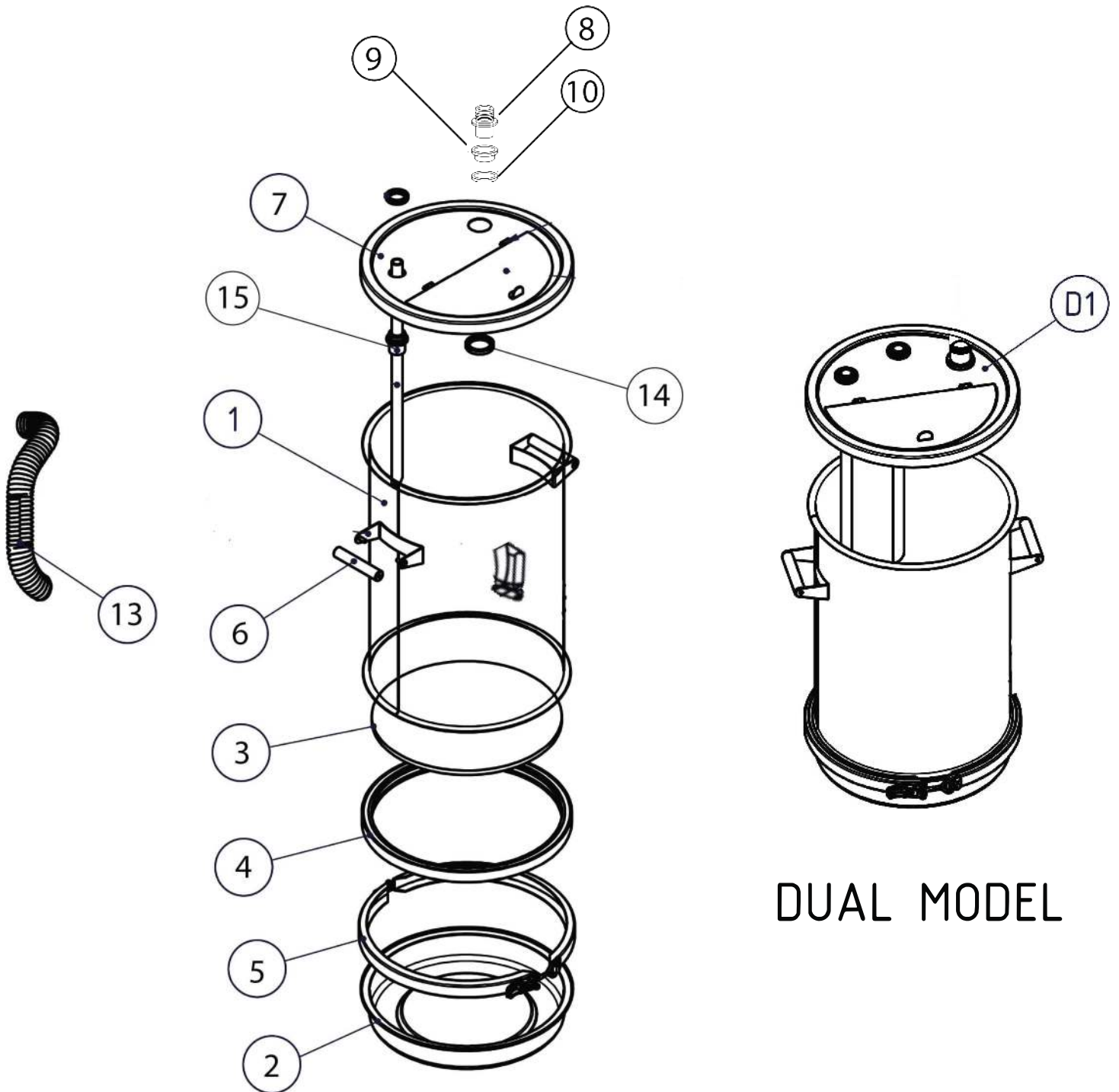
B07ECM012+3
E-COAT+3 MULTICOLOR SUCTION
PIPE AP3 (COMPLETE)



Part No	Order Code	Part Name	Wearing Part	RECOMMENDED STOCK PARTS
A	B07ECM012+3	E-COAT+3 AP3 TYPE MULTICOLOR SUCTION TUBE	N/A	N/A
1	TRTM03022	E-COAT+3 MULTICOLOR SUCTION TUBE TOP LID	N/A	N/A
2	SCBR08002	E-COAT+3 MULTICOLOR SUCTION TUBE (1) L:560	N/A	N/A
3	SCBR06006	E-COAT+3 MULTICOLOR SUCTION TUBE (2) L:560	N/A	N/A
4	IZOR01105	O-RING Ø16X2 VITON(FKM) 70-75 SHORE (A) BROWN	✓	✓
5	TRTM03024	E-COAT+3 MULTICOLOR SUCTION TUBE ADAPTER BOTTOM BODY	N/A	N/A
6	IZOR01027	ORING Ø30X2	✓	✓
7	FRFL08007	E-COAT+3 MULTICOLOR SUCTION TUBE SINTER FILTER	✓	✓
8	TRTM03062	E-COAT+3 SUCTION ADAPTER LOWER NUT	✓	✓
9	PNBE01003	QUICK COUPLING 1/8" MALE	N/A	N/A
10	TRTM03117	E-COAT+3 MULTICOLOR LOCKING NUT	N/A	N/A
11	TRTM03116	E-COAT+3 MULTICOLOR LOCKING BODY	N/A	N/A
13	TRTM04065	INJECTOR SLOT ADAPTER	N/A	N/A



Part No	Order Code	Part Name
1	A05EH0050+3	E-HOPP50+3 50L STAINLESS STEEL POWDER COATING TANK
2	A05EH0050D+3	E-HOPP50+3 DUAL 50 L STAINLESS STEEL POWDER COATING TANK

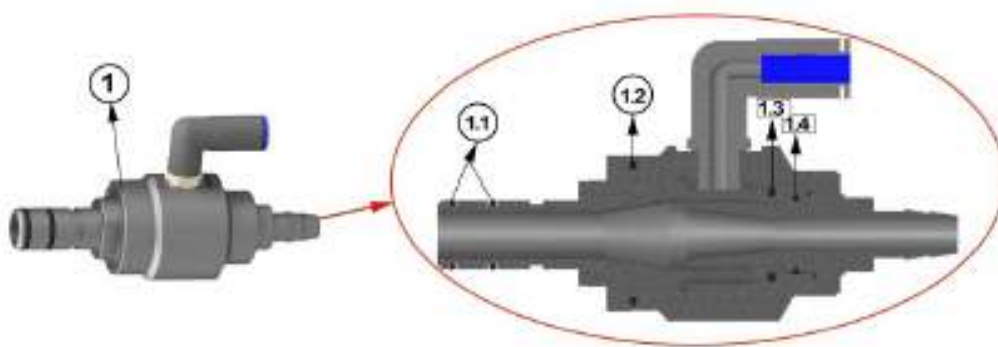


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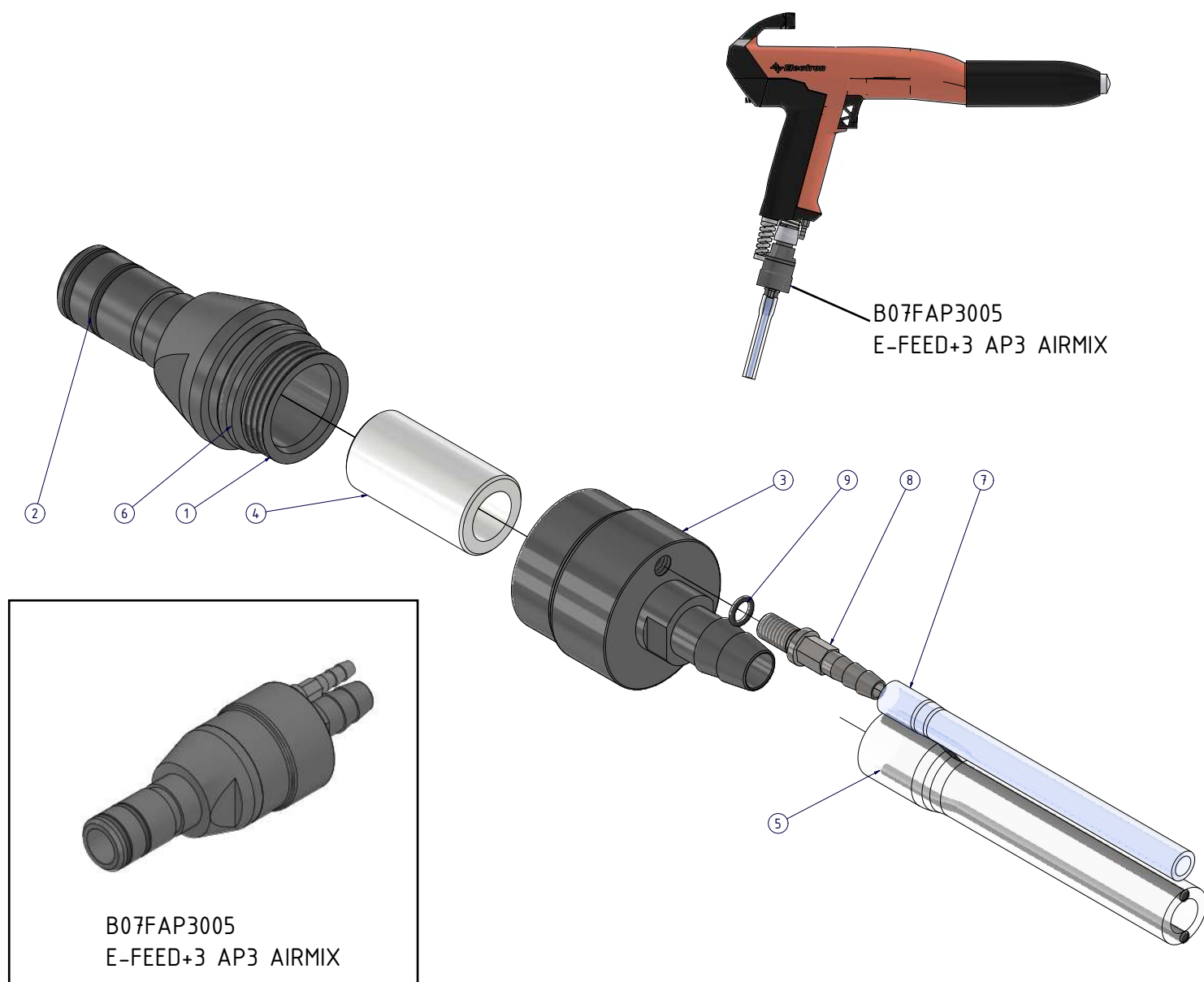
Part No	Order Code	Part :Name	Wearing Part	Recommended Stock Parts
1	B06CE02001	E-HOPP50 KROM DEPO GÖVDESİ AISI430	N/A	N/A
2	SCSC05003	E-HOPP50 DEPO ALT SIVAMASI	N/A	N/A
3	FRFL07003	KABARTMA TABANI Ø375 E-HOPP50	✓	✓
4	IZCS02001	CONTA E-HOPP50 KABARTMA TABANI (75-80 SHORE)	✓	✓
5	B07EH50901	E-HOPP50 KELEPÇE	N/A	N/A
6	TRTM04041	TORNA DEPO TUTMA KOLU Ø20 L110	N/A	N/A
7	B10C0003	E-HOPP50 DEPO ÜST KAPAK SIVAMASI AISI430	N/A	N/A
8	TRTM4053	TORNA EGZOS HORTUM GİRİŞ JAKI AA36 L54	N/A	N/A
9	TRTM04042	TORNA HORTUM GİRİŞ JAKI BAGLANTI SOMUNU Ø50 L8	N/A	N/A
10	TRTM04043	TORNA HORTUM GİRİŞ JAKI BAGLANTISI Ø50 L25	N/A	N/A
13	B07EH50903	E-HOPP50 GİRTLAK HORTUM	✓	✓
14	TRTM04193	E-HOPP50+3 HORTUM GİRİŞ JAKI BAGLANTI SOMUNU Ø50 L8	N/A	N/A
15	B07KEYT001	E-HOPP50 50LT KROM DEPO EMİŞ BORUSU TAKIMI	N/A	N/A
D1	B10C0005	E-HOPP50 DEPO DUAL ÜST KAPAK SIVAMASI	N/A	N/A



Part #	Order Code	Part Name	QTY
2	B07FAP011	E-FEED+3 AP3 SUCTION PIPE SET	1
2.1	TRTM03031	AP3 SUCTION HOSE TIP °22X31	1
2.2	TRTM04065	AP3 INJECTOR HOUSING ADAPTER Ø30X35	1
2.3	IZOR01105	O-RING Ø16X2 VITON(FKM) 70-75 SHORE (A) BROWN	1
2.4	IZOR01003	O-RING Ø7X1,5 NBR70	2



Part #	Order Code	Part Name	QTY
1	B07FAP010	E-FEED +3 AP3 DIFFUSER	1pc per gun
1.1	IZOR01111	O-RING Ø12X1,5 VITON(FKM) 70-75 SHORE (A) BROWN	2
1.2	IZOR01025	O-RING Ø26X2 NBR70	1
1.3	IZOR01105	O-RING Ø16X2 VITON(FKM) 70-75 SHORE (A) BROWN	1
1.4	IZOR02003	O-RING Ø14X1.5 NBR70	1



STOCK NUMBER	DESCRIPTION	ITEM	QTY	Wearing Part	Recommended Stock
TRTM03142	E-FEED+3 AP3 AIRMIX GUN INLET BODY	1	1	X	X
IZOR01111	O-RING Ø12X1,5 VITON(FKM) 70-75 SHORE (A) BROWN	2	2	✓	✓
TRTM03143	E-FEED+3 AP3 AIRMIX HOSE COUPLING BODY	3	1	X	X
FRFL08017	FILTER UHMW-PE 0.5 MICRON E-FEED+3 AP3 AIRMIX	4	1	✓	✓
PNH003003	AP3 POWDER HOSE AIRMIX	5	INDICATE LENGTH	✓	✓
IZOR01008	O-RING Ø20X2 NBR70	6	1	✓	✓
PNH001002	Ø6-4 BLUE AIR HOSE	7	INDICATE LENGTH	X	✓
TRTM08490	E-FEED+3 AP3 AIRMIX AIR INLET COUPLING	8	1	X	X
IZOR01075	O-RING Ø4X1 NBR70	9	1	X	X



1



Part No	Order Code	Part Name
1	AKUA03178	GUN BRUSH

Note: Optional part (used for cleaning the inside of the gun, ordered separately)

9. Service and Maintenance Table

DATE	MAINT. TYPE -Weekly -Yearly -Service	MAINTENANCE OR SERVICE PERSONNEL	PROCEDURE CHANGED PARTS NOTES	CONTROL SUPERVISOR

10. Product Life and Warranty

1. Product Life

- The economic life of E-COAT+3 Master P3 is approximately 10 years.
- This product life is highly dependent on the periodic maintenances and spare part changes in a timely manner. Improper maintenance will lead to lower product life.
- SİSTEM TEKNİK A.Ş. warrants supplying the needed service and the spare parts for the entire product life.

2. Warranty and Warranty Conditions

- The gun is warranted for production and parts failure for 2 (two) years.
- Spare parts that are changed from the warranty are free-of-charge.
- The parts that are supplied in the system which are not produced by SİSTEM TEKNİK A.Ş. are warranted with their own manufacturers and their own conditions.
- SİSTEM TEKNİK A.Ş. will not be held responsible for the improper usage of the machine or any unauthorized usage. These are not in the warranty.

3. Operating Conditions

- Read the user manual before using the gun.
- Only legally allowed people can operate E-COAT+3 Master P3
- Only trained and authorized people can operate E-COAT+3 Master P3
- SİSTEM TEKNİK A.Ş.'s suggested spare parts should be used at all times.
- Proper maintenance has to be done and the spare parts has to be changed in a timely manner.
- The operational safety has to be assured by the customer; the operators who are not capable of working under safety rules shouldn't be operating the Control Unit.
- All the suggestions and warnings in this manual have to be carefully considered and applied.



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